



# *United States Army Logistics Integration Agency*



## LIA Business Process Redesign Laboratory

Class III (B)



# Demonstration Legend



**Clicking on the back arrow will return the user to the previous**

**slide viewed.**



**Clicking on the "I" will provide specific slide information.**



**Clicking on the "M" button will return the user to the Model Characteristics page.**



**Clicking on the "G2" button will return the user to the G2 Legend.**



**Clicking on the stop sign will exit the user from the PPT show.**



**Clicking on the forward arrow will move the user to the next slide.**



**Clicking on the U-turn arrow will return user to the previously viewed slide.**



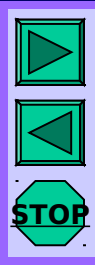
**Clicking on the "L" button will return the user to the Demonstration Legend.**



**Clicking on the "G" button will return the user to the Glossary of Acronyms.**



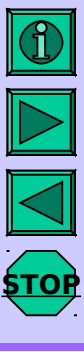
# Army Logistics Process Class III (B)



- Introduction
  - Purpose
  - Model Interpretation
- Detailed Logistics Walk Through
  - Retail
  - Wholesale
  - Financial Impacts



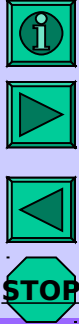
# Model Premises



- “As is”
  - As stated by policy
  - Base capability for future “what-if” analysis
- Class III (Bulk) CONUS Garrison
- Generated through participation of functional experts



# Model Characteristics



## OBJECTIVE:

- To capture the U.S. Army's end-to-end Class III logistics process in a visualization model. To measure the consumption and operational constraints on the delivery of fuel based on available resources, unit size, distance, and days in operation.

## APPROACH:

- Develop the Class III Model to reference the real world aspects of the U.S. Army's petroleum process and clearly demonstrate the usage and the accountability of fuel.

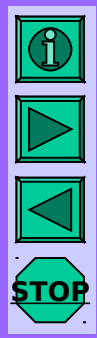
## CAPABILITIES:

- Variables within the model such as organizational size, number of organizations, distance, support organizations, refueling equipment, constraints on delivery time, consumption factors and other values can all be adjusted to obtain output data. Output data from the model based on run time can be collected on Excel Spreadsheets to exhibit multiple data elements in a variety of fields, for example:

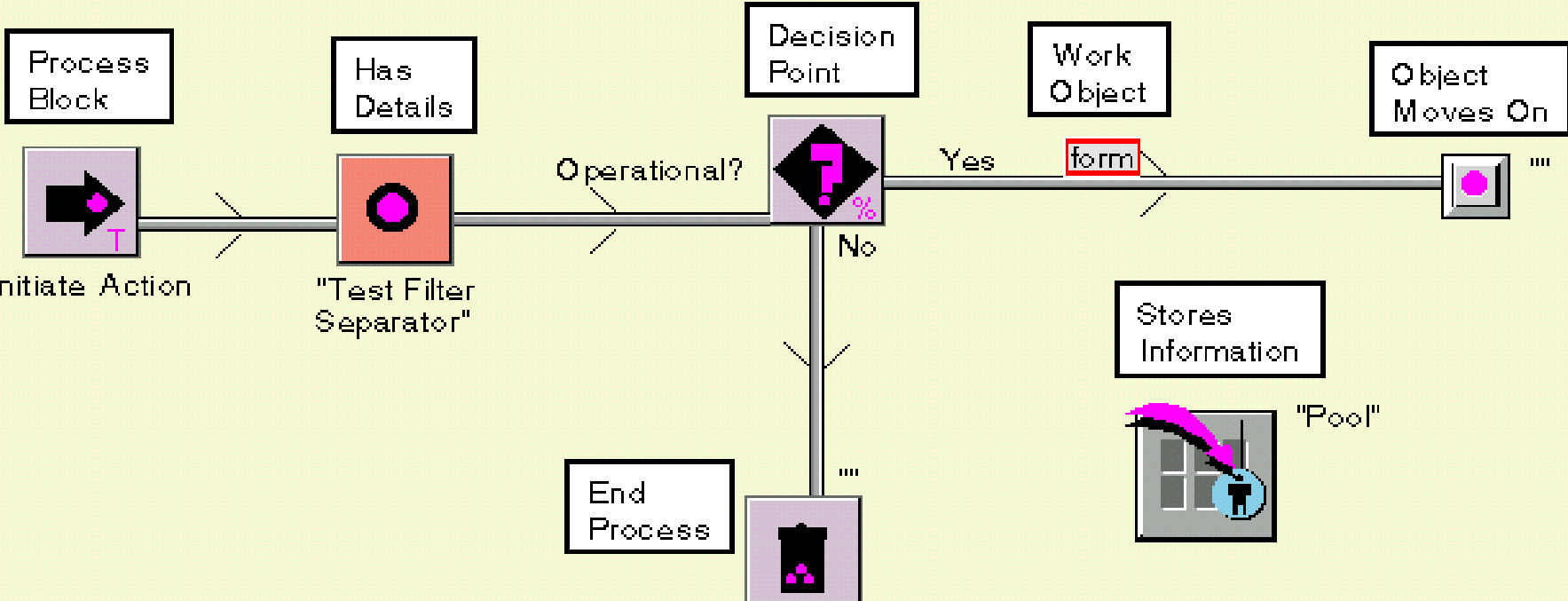
- 1.Beginning Inventory
- 2.Fuel on hand
- 3.Fuel received
- 4.Fuel issued
- 5.Cost of fuel both issued and received
- 6.Ending Inventory

# CLASSIII-PROCESS-EXPLANATION

## Class III Process Explanation

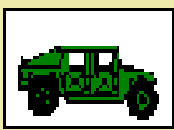
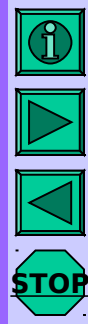


- Process blocks represent steps in the process.
- Work objects flow between process blocks.
- When a work object reaches "the end" of a workspace, it moves to another workspace.
- Salmon-colored blocks contain detail of tasks on a separate workspace.





**Class III Legend**  
Description of Working Objects Produced by The Model.



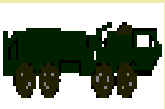
HMMWV  
Operator/Customer

DA 3644

DA Form 3644,  
Monthly Abstract of  
Issues.  
Used to compile all  
entries from the Daily  
Issue Register for the  
month. This form is  
updated daily.



Monetary obligation.  
Generated to fulfill  
financial obligations  
for POL delivery.



M978 HEMTT  
Bulk Fuel All-Terrain Vehicle  
Has tank capacity of 2500 gallons

Electric Key

Electronic Key  
Automated Process.  
Functions as an computerized  
DA Form 3643.

DA FORM  
4702-R

(MBPAS)  
Monthly Bulk Petroleum  
Accounting Summary.  
Used by units to record  
receipts, issues, and inventory  
gains and losses of POL.



Military refueling Vehicle 5000  
gallon tank fuel capacity.

Credit  
SLIP

Receipt generated from  
the Fleet Credit Card used  
for POL Purchases off post

ADJUSTMENTS



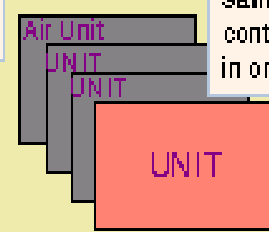
Text Describing Policy.



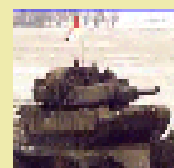
Commercial Refueling  
Vehicle

Fleet Card Report  
Monthly

Fleet Card Monthly Report  
submitted monthly to reflect  
total Fleet Card Purchases.



Salmon Colored Blocks can  
contain several layers of information,  
in order to depict meticulous detail



Tracked Vehicle  
Representation.

Bulk Fuel  
Request

DA Form 2785-1,  
DD Form 1348, etc.  
Bulk Fuel Request  
Submitted to replenish  
fuel requirements.

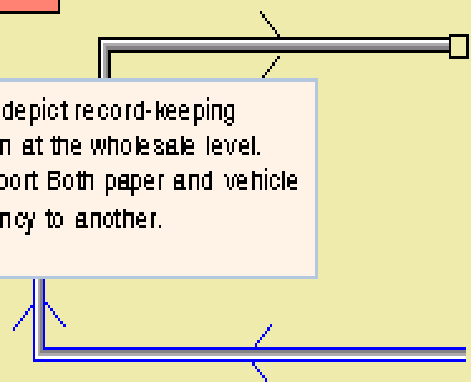
DA 3643

DA Form 3643  
Daily Issue Register.  
Records all issues  
into a consumable unit.

DD 1155

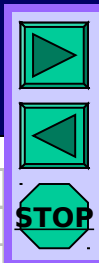
DD Form 1155  
Used to contract  
for bulk fuel requirements  
from commercial sources.

Blue colored paths depict record-keeping  
and fiscal interaction at the wholesale level.  
Gray paths will support Both paper and vehicle  
travel from one agency to another.





# Glossary of Acronyms



<b>ADP LISTING</b>	<b>Automated Data Processing Listing</b>	<b>DISCOM</b>	<b>Division Support Command</b>
<b>APC</b>	<b>Army Petroleum Center</b>	<b>DMMC</b>	<b>Division Materiel Management Center</b>
<b>API</b>	<b>American Petroleum Institute</b>	<b>DP</b>	<b>Distribution Plan</b>
<b>ASB</b>	<b>Aviation Support Battalion</b>	<b>DPA</b>	<b>Distribution Plan Authorization</b>
<b>AVGAS</b>	<b>Aviation Gas</b>	<b>DRMO</b>	<b>Defense Reutilization Marketing Office</b>
<b>CIS</b>	<b>Contract Information System</b>	<b>DSU</b>	<b>Direct Support Unit</b>
<b>CLIN</b>	<b>Contract Line Item Number</b>	<b>FOB</b>	<b>Free On Board</b>
<b>CSB</b>	<b>Corps Support Battalion</b>	<b>FSB</b>	<b>Forward Support Battalion</b>
<b>DOD 4140.25M</b>	<b>Management of Bulk Petroleum Products</b>	<b>IAW</b>	<b>In Accordance With</b>
<b>DADS</b>	<b>DFAMS Asynchronous Dial-up System</b>	<b>J P8</b>	<b>Name of multiple equipment Fuel Blend</b>
<b>DCMC</b>	<b>Defense Contract Management Command</b>	<b>MBPAS</b>	<b>Monthly Bulk Petroleum Accounting Summary</b>
<b>DESC</b>	<b>Defense Energy Support Center</b>	<b>MIPR</b>	<b>Military Interdepartmental Purchase Request</b>
<b>DESCI 4220.1</b>	<b>Requirements Submission Schedule for Energy Commodities &amp; Related Services</b>	<b>MMC</b>	<b>Material Management Center</b>
<b>DFAMS</b>	<b>Defense Fuels Automated Management Systems</b>	<b>MSB</b>	<b>Main Support Battalion</b>
<b>DFSP</b>	<b>Defense Fuel Support Point</b>	<b>PC&amp;S</b>	<b>Post, Camp and Station Program</b>
<b>DIC</b>	<b>Document Identifier Codes</b>	<b>PORTS</b>	<b>Paperless Ordering &amp; Receipt Transaction Screens</b>
<b>P20</b>	<b>Contractor Shipment</b>	<b>RCS</b>	<b>Report(s) Control System</b>
<b>P21</b>	<b>Shipment to a Service or Agency</b>	<b>SIOATH</b>	<b>Source Identification Ordering Authority</b>
<b>P22</b>	<b>Shipment to a DFSP from a DFSP</b>	<b>TDA LABORATORIES</b>	<b>Table of Distribution &amp; Allowances</b>
<b>P2B</b>	<b>Defuel</b>	<b>TO&amp;E</b>	<b>Table of Organization &amp; Equipment</b>
<b>P30</b>	<b>Receipt from Contractor</b>	<b>USAPC</b>	<b>U. S. Army Petroleum Center</b>
<b>P32</b>	<b>Receipt by a DFSP from a DFSP</b>		
<b>P41</b>	<b>Physical Inventory</b>		
<b>P42</b>	<b>Inventory Adjustments</b>		
<b>P43</b>	<b>Condition/Identity Change</b>		





Retail

jump  
pause d"WEDNESDAY, 27 Jun 2001 3:38:13  
a.m."

BULK REQUEST

Customer

MSB, Refueler

Wholesale

Industry

DD 1155

Customer

MBPAS  
REPORT

Customer

Customer

Unit Refueler

Non-Divisional Customer

Customer

Refueler

Back in Operation

Refueler

INSTALLATION  
DOL

DD 1155 copy

APC

DESC

DESC  
AREA  
OFFICE

DFSP

VENDOR

Refueler

Customer

Gas \$/b per Gall

1.0

1.2

2.0

Gas \$/b per Gall for the VENDOR

1.0

1.25

4.0



UNIT

FSB

MSB

DISCOM

COSCOM

CSB



Retail

jump  
pause d"WEDNESDAY, 27 Jun 2001 3:38:13  
a.m."

BULK REQUEST

Wholesale

Industry

Customer

DD 1155

Customer

MSB, Refueler

Refueler

MBPAS  
REPORT

Customer

INSTALLATION  
DOL

DD 1155 copy

UNIT

F&amp;B

MSB

DISCOM

COSCOM

Unit Refueler

Non-Divisional Customer

CSB

APC

DESC

DESC  
AREA  
OFFICE

VENDOR

Customer

Refueler

Refueler

Customer

Back in Operation

Gas \$/Gallon

1.0 1.2 2.0

Gas \$/Gallon for the VENDOR

1.0 1.25 4.0

# Class III Unit Level

RESET

## Annotations

FLEET CARD MDPAS INVENTORY ADJUSTMENTS DERJELS CONVOY DA-FORM 2783-1



"Change Receipts"



"Archive"



"DA Form 2899"



MONTHLY

Status of



"Truck Vehiclez"



"Wheeled Vehiclez"



"Fuel" 0.0

"FuelRequired?"

Operation Cycle

Ground Vehicle

Refuel at Unit?

Determine Fuel Source

Set Direction

NEED GAS?

Yes

No

No

Back into Operation

Ground Operations

Unit Refueler

DA FORM 2893

REFUEL UNIT TANKER

"Refueled tanker returns"

0

"Refuel Unit Tanker?"

"Create a 2783 for tanker refuel"

TO F55

TO C55/M55

TO Installation

Local Purchase



UNIT-TANKER-POOL

UNIT 2500 GALLON TANKERS

Number of Tankers in Convoy

1

1 16

Fuel of Convoy 2500

Vehicle Return



# Class III Unit Level

RESET

## Annotations

FLEET CARD MDPAS INVENTORY ADJUSTMENTS DERUELS CONVOY DA-FORM-2783-1

Status of

"Truck Vehiclez"

"Wheeled Vehiclez"

"Change Receipts"

"Archive"

"DA Form 2899"

"Sampling and Testing"

MONTHLY

"Fuel"  
0.0

"FuelRequired?"

Refuel at Unit?

Determine  
Fuel Source

Set Direction

Operation  
Cycle

Ground Vehicle

NEED  
GAS?

Yes

No

No

Back into Operation

Ground Operations

Unit  
Refueler

DA FORM 2893

REFUEL UNIT TANKER

"Refueled tanker returns"

0

"Refuel Unit Tanker?"

"Create a 2783  
for tanker refuel"

TO F55

TO C55/M55

TO Installation

Local Purchase

Vehicle Return

UNIT 2500 GALLON TANKERS

Number of Tankers  
in Convoy

1

1 16

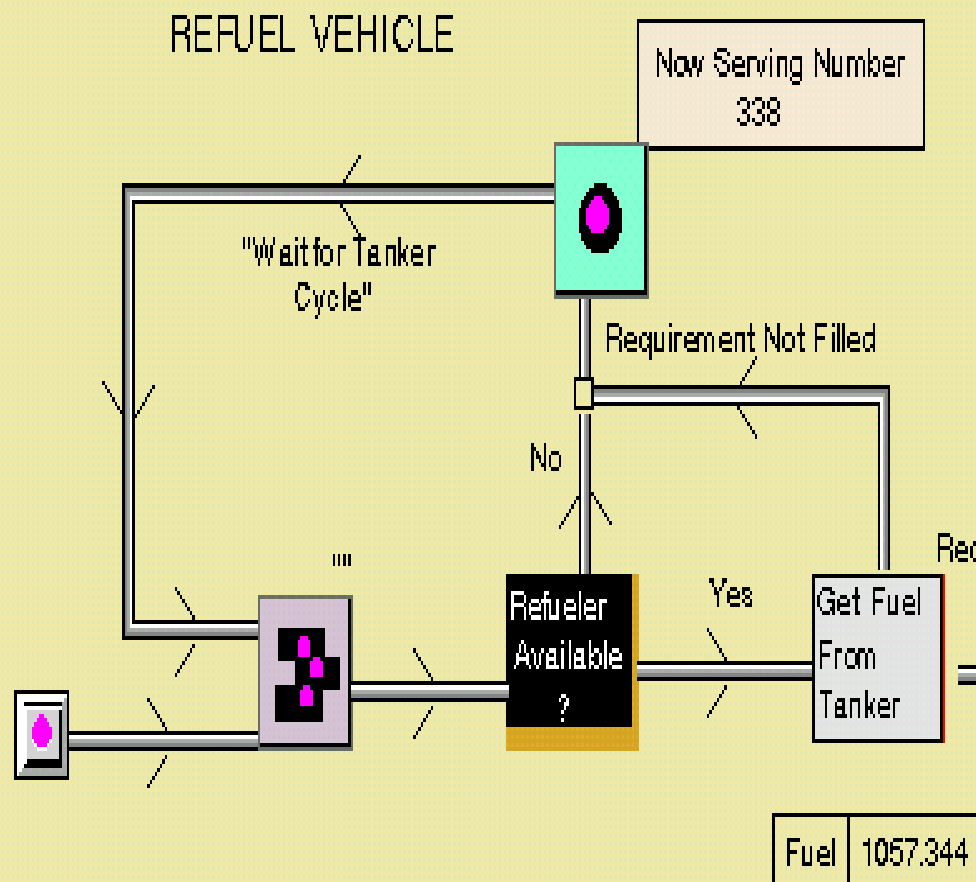
Fuel of Convoy 2500



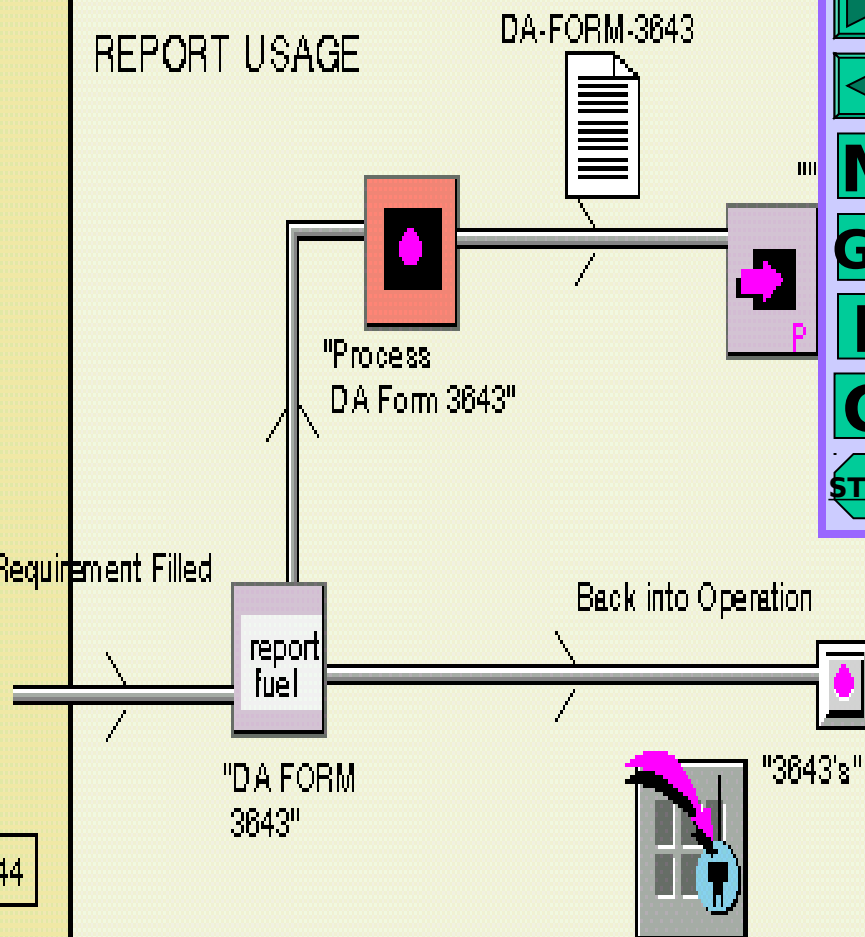


# Unit Level Refuel Detail

## REFUEL VEHICLE



## REPORT USAGE



# Class III Unit Level

RESET

## Annotations

FLEET CARD MDPAS INVENTORY ADJUSTMENTS DERIVELS CONVOY DA-FORM-2783-1

Status of

"Truck Vehiclez"

"Wheeled Vehiclez"

"Change Receipts"

"Archive"

"DA Form 2899"

"Sampling and Testing"

MONTHLY

"Fuel"  
0.0

"FuelRequired?"

Refuel at Unit?

Determine  
Fuel Source

Set Direction

Operation  
Cycle

Ground Vehicle

NEED  
GAS?

Yes

No

No

Back into Operation

Ground Operations

Unit  
Refueler

DA FORM 2893

REFUEL UNIT TANKER

"Refueled tanker returns"

0

"Refuel Unit Tanker?"

"Create a 2783  
for tanker refuel"

TO F55

TO C56/M56

TO Installation

Local Purchase

Vehicle Return

## UNIT 2500 GALLON TANKERS

Number of Tankers  
in Convoy

1

1 16

Fuel of Convoy 2500

M

G2

L

G

STOP

# Class III Unit Level

RESET

## Annotations

FLEET CARD MDPAS INVENTORY ADJUSTMENTS DERIVELS CONVOY DA-FORM-2785-1

Status of

"Truck Vehiclez"

"Wheeled Vehiclez"

"Change Receipts"

"Archive"

"DA Form 2899"

"Sampling and Testing"

MONTHLY

"Fuel"  
0.0

"FuelRequired?"

Refuel at Unit?

Determine  
Fuel Source

Set Direction

Operation  
Cycle

Ground Vehicle

NEED  
GAS?

Yes

No

No

Back into Operation

Ground Operations

Unit  
Refueler

DA FORM 2892

REFUEL UNIT TANKER

"Refueled tanker returns"

0

"Refuel Unit Tanker?"

"Create a 2785  
for tanker refuel"

TO F55

TO C55/M55

TO Installation

Local Purchase



## UNIT 2500 GALLON TANKERS

Number of Tankers  
in Convoy

1

1 16

Fuel of Convoy 2500

Vehicle Return

M

G2

L

G

STOP

# Class III Unit Level

RESET

## Annotations

FLEET CARD MDPAS INVENTORY ADJUSTMENTS DERUELS CONVOY DA-FORM-2783-1

Status of

"Truck Vehiclez"

"Wheeled Vehiclez"

"Change Receipts"

"Archive"

"DA Form 2899"

"Sampling and Testing"

MONTHLY

"Fuel"  
0.0

"FuelRequired?"

Refuel at Unit?

Determine  
Fuel Source

Set Direction

Operation  
Cycle

Ground Vehicle

NEED  
GAS?

No

Yes

No

Yes

Back into Operation

Ground Operations

Unit  
Refueler

DA FORM 2893

REFUEL UNIT TANKER

"Refueled tanker returns"

0

"Refuel Unit Tanker?"

"Create a 2783  
for tanker refuel"

TO F55

TO C55/M55

TO Installation

Local Purchase

Vehicle Return

UNIT-TANKER-POOL



UNIT 2500 GALLON TANKERS

Number of Tankers  
in Convoy

1

1 16

Fuel of Convoy 2500

M

G2

L

G

STOP



# Class III Unit Level

RESET

"Truck Vehiclez"

"Wheeled Vehiclez"

Annotations

FLEET CARD

NDPAS INVENTORY

ADJUSTMENTS

DERIVELS CONVOY

DA-FORM-2783-1

"Change Receipts"

"Archive"

"DA Form 2899"

MONTHLY

Status of



"Sampling and Testing"



"Fuel" 0.0

"FuelRequired?"

Operation Cycle

Ground Vehicle

NEED GAS?

Yes

No

Refuel at Unit?

Determine Fuel Source

No

Set Direction

Back into Operation

Ground Operations

Unit Refueler

DA FORM 2893

REFUEL UNIT TANKER

"Refueled tanker returns"

0

"Refuel Unit Tanker?"

"Create a 2783 for tanker refuel"

TO F55

TO C55/M55

TO Installation

Local Purchase



UNIT-TANKER-POOL

UNIT 2500 GALLON TANKERS

Number of Tankers in Convoy

1

16

Fuel of Convoy 2500

Vehicle Return



## Unit Inventory Procedures

### Daily

Gage solid wall tanks having Issues/Receipts for fuel  
Record gaging data on DA Form 3853-1  
(Innage Gage Sheet) or local form  
Use total Receipts/Issues on Daily Issue Sheet  
(DA Form 3643) & post to DA Form 3644  
(The Monthly Abstract of Issues of Petroleum products)

### Weekly

Gage solid wall tanks that have not had Receipts/Issues  
of fuel  
Record on DA Form 3853-1 (Innage Gage Sheet) or local  
form

### Monthly

As of 0800 hrs, last day of month:  
Gage all tanks  
Record results on DA Form 3853-1 (innage Gage Sheet)  
Volume Correct quantities = > 3,500 gallons to 60  
degrees F.  
Reconcile physical inventory on DA Form 5831-R  
(Petroleum Product Inventory Control  
Sheet)  
Total Issues/Receipts on DA Form 3644 (Monthly  
Abstract), assign document number & post to  
Document Register  
Record data on DA Form 4702-R Monthly Bulk Petroleum  
Accounting Summary (MBPAS)  
Compute allowable gains or losses  
+/- 1% if beginning inventory & receipts for jet fuel (less  
JP-8) AVGAS, Gasoline  
+/- 1/2 of 1% of total of beginning inventory & receipts  
for all other petroleum products





## Inventory Adjustments

Take Inventory Adjustment Actions

If actual loss > allowable loss and > \$500  
initiate Report of Survey for total loss.

If actual loss > allowable loss, but < \$500,  
initiate Causative Research

If gain exceeds allowable gain, initiate  
Causative Research.

Forward MBPAS for approval within 3 days of end of  
Month.



# Class III Unit Level

RESET

## Annotations

FLEET CARD MDPAS INVENTORY ADJUSTMENTS DERJELS CONVOY DA-FORM-2783-1

Status of

"Truck Vehiclez"

"Wheeled Vehiclez"

"Change Receipts"

"Archive"

"DA Form 2899"

"Sampling and Testing"

"Fuel"  
0.0

"FuelRequired?"

Operation  
Cycle

Ground Vehicle

NEED  
GAS?

Refuel at Unit?

Determine  
Fuel Source

Set Direction

Back into Operation

Ground Operations

Unit  
Refueler

DA FORM 2892

REFUEL UNIT TANKER

"Refueled tanker returns"

0

"Refuel Unit Tanker?"

"Create a 2783  
for tanker refuel"

TO F55

TO C55/M55

TO Installation

Local Purchase

UNIT-TANKER-POOL



UNIT 2500 GALLON TANKERS

Number of Tankers  
in Convoy

1

1 16

Fuel of Convoy 2500

Vehicle Return



M  
G2  
L  
G  
STOP

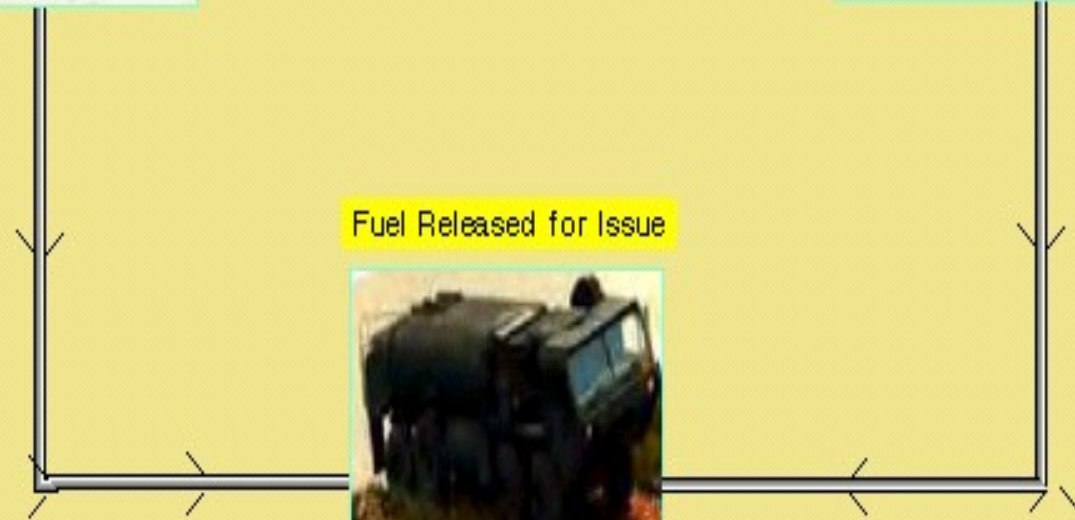
"On-Site Testing"



"Filter Separator Testing"

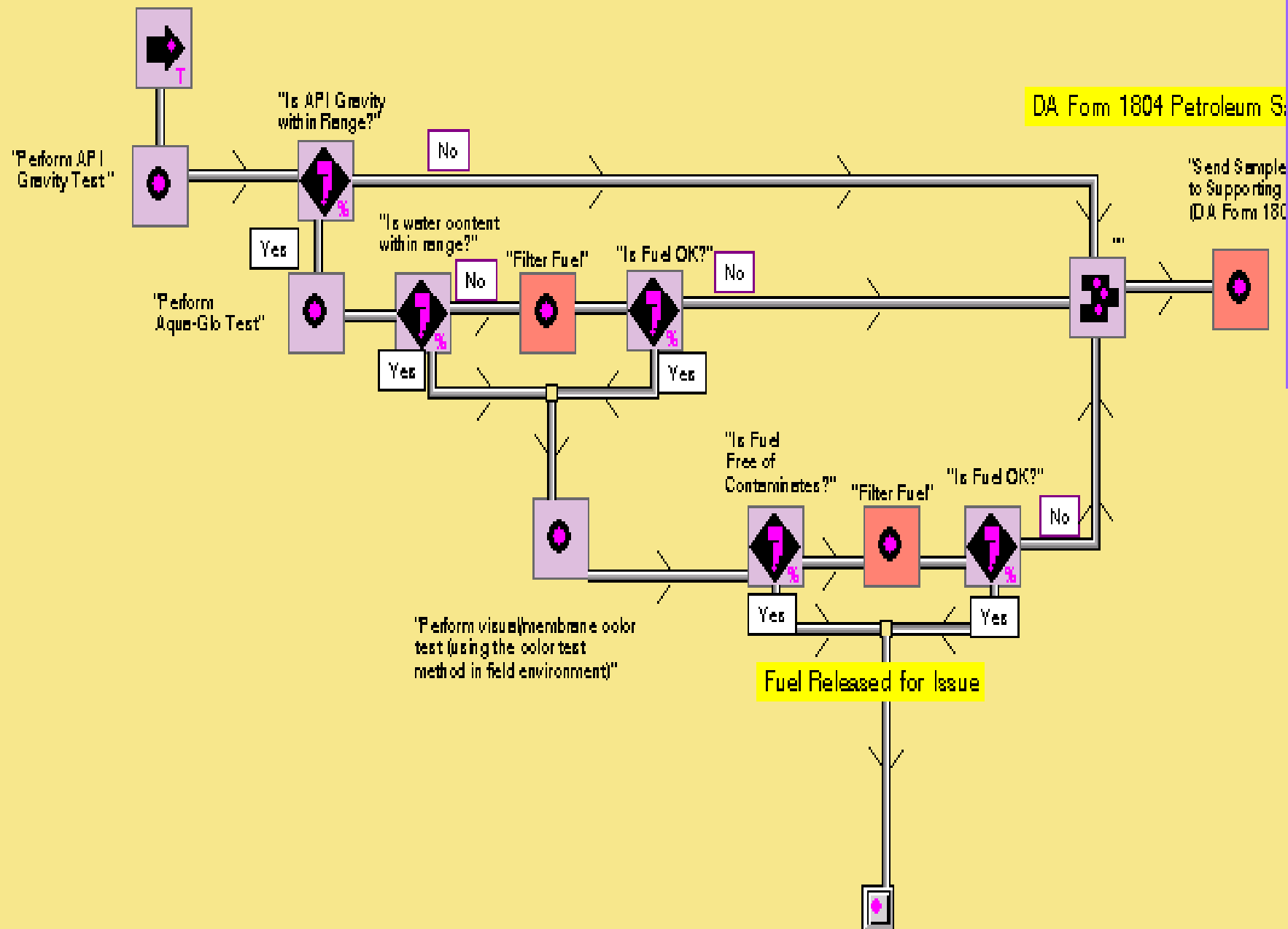


Fuel Released for Issue





# On-Site Testing



"On-Site Testing"



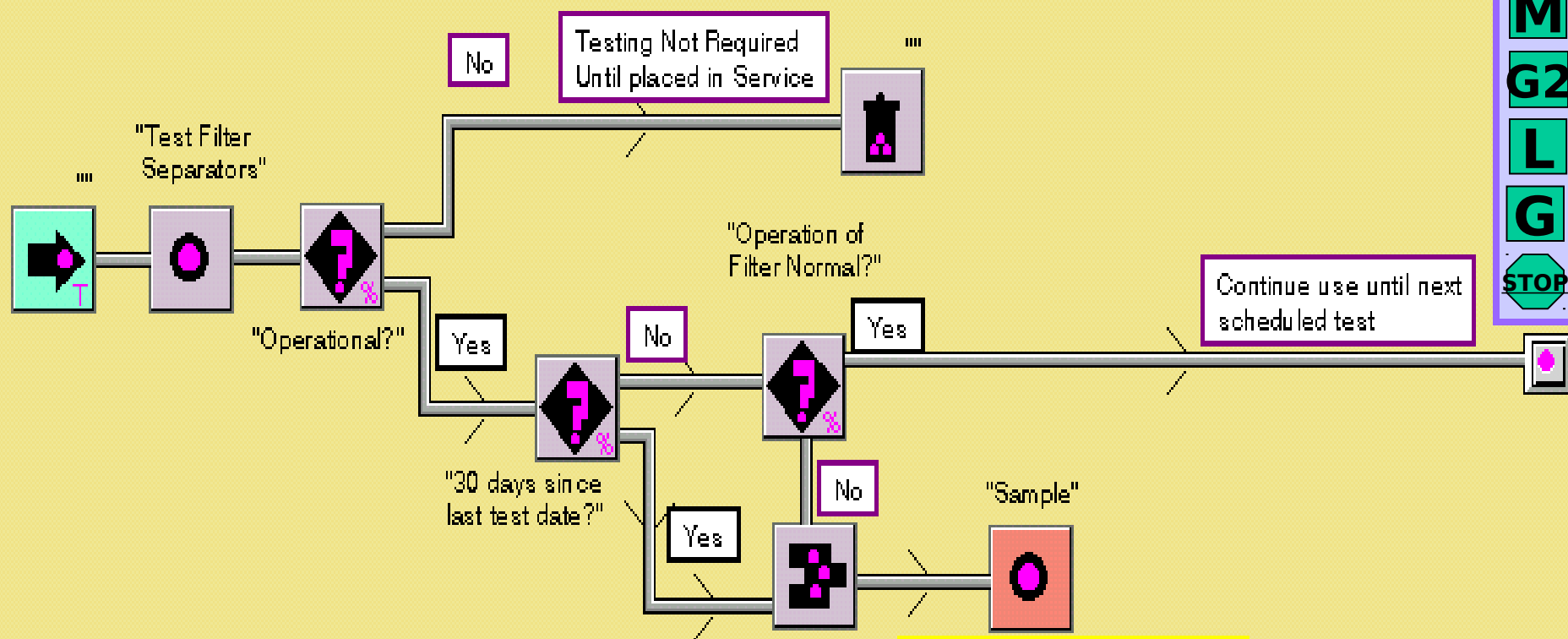
"Filter Separator Testing"



Fuel Released for Issue



## Filter Separator Testing



DA Form 1804  
Petroleum Sample  
Send tagged sample  
to supporting Petroleum  
Laboratory



# Aviation Class III Unit Level

## Monthly Reporting

"Report 3844's to the DISCOM"



### "AIRCRAFT OPERATIONS"



"Fuel" 200.0

"NEED REFUEL?"

Operation Cycle  
Aviation



No

No

Military Installation Available?

Yes

Back into Operation



"AVFUEL Identaplate"

Set Direction

TO ASB,MSB,FS

TO CSE

TO Installation

Local Purchase

### UNIT FUEL TANKER



AIRCRAFT-TANKER-POOL

Available Refuel Vehicles: 3

ADJUSTMENTS INVENTORY



"Sampling and Testing"

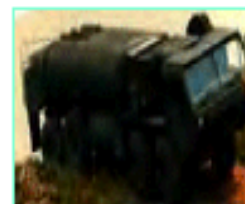


### REFUEL UNIT TANKER



"Refueled tanker returned 2783-1"

"Refuel Unit Tanker?"



"Create a 2783 for tanker refuel"

"Charge Receipts"



AIR-CARD



"AVFUEL"



"Air-Card w/o Contract"



NO-CONTRACT



Incoming Transportation



Navigation controls:

- Information icon (i)
- Next button (▶)
- Previous button (◀)
- M button
- G2 button
- L button
- G button
- STOP button

# Aviation Class III Unit Level

"AIRCRAFT OPERATIONS"



'Fuel'  
200.0

'NEED REFUEL?'

Operation  
Cycle

Aviation

No

Yes

Military Installation  
Available?

Back into Operation

Monthly Reporting

'Report 2844's to  
the DISCOM'

Set Direction



"AVFUEL Identplate"

TO ASE

TO CSE

TO Installation

Local Purchase

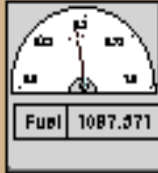
UNIT FUEL TANKER



AIRCRAFT-TANKER-POOL

Available Refuel Vehicles: 3

ADJUSTMENTS INVENTORY



Fuel 1087.371

DEFUELS

'Sampling and Testing'



REFUEL UNIT TANKER

'Refueled tanker return #2785-1'

'Refuel Unit Tanker?'

'Create a 2785  
for tanker refuel'

'Charge  
Receipts'

AIR-CARD

"AVFUEL"

AVFUEL

"Air-Card w/o Contract"

NO-CONTRACT

Incoming Transportation



# Aviation Class III Unit Level

## Monthly Reporting

"Report 2899's to the DISCOM"



Operation Cycle  
Aviation

"NEED REFUEL?"

"Fuel"  
200.0

No

Yes

Yes

Military Installation Available?

Back into Operation



"AVFUEL Identplate"

Set Direction

TO ASSEMBLYS

TO CSE

TO Installation

Local Purchase

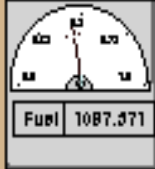
## UNIT FUEL TANKER



AIRCRAFT-TANKER-POOL

Available Refuel Vehicles: 3

ADJUSTMENTS INVENTORY



DEFUELS

"Sampling and Testing"

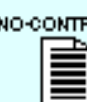
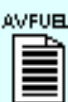


## REFUEL UNIT TANKER

"Refueled tanker return d/2785-1"

"Refuel Unit Tanker?"

"Create a 2785 for tanker refuel"



Incoming Transportation





## Use of the Air Card

- \* Pilot presents Air Card (Aviation Into-Plane Reimbursement Card)
- \* Pilot signs Commercial Credit Card Slip (issue is electronically recorded and Passed to DESC for billing Payment at Stock Fund Rate)





Retail

jump  
pause d"WEDNESDAY, 27 Jun 2001 3:38:13  
a.m."

BULK REQUEST

Wholesale

Industry

Customer

DD 1155

Refueler

Customer

MSB, Refueler

Customer

MBPAS  
REPORT

Customer

UNIT

FSB

MSB

DISCOM

COSCOM

INSTALLATION  
DOL

DD 1155 copy

APC

DESC

VENDOR

Unit Refueler

Non-Divisional Customer

Customer

Refueler

CSB

Back in Operation

Refueler

Customer

Gas \$/b per Gall

1.0 1.2 2.0

Gas \$/b per Gall for the VENDOR

1.0 1.25 4.0



# FSB, Fuel Process

"Sample and Testing"



FSB-TANKER-POOL



Retail Support

NUMBER in Convoy 3

1 11

Fuel of Convoy 130.00

REFUEL CUSTOMER (RETAIL ISSUE)

Fuel  
Pump

Report  
Fuel  
Usage

Back into Operation

" REFUEL  
CUSTOMER  
VEHICLE"

REFUEL TANKER (BULK ISSUE)

Bulk  
Issue  
Point

Report  
Fuel  
Usage

Refueler to Unit

BULK FUEL REQUEST

REQUEST AND RECEIPT OF BULK FUEL

REQUEST

RECEIPT

INVENTORY

FUEL DELIVERY

MBPAS

DEFUELS

ADJUSTMENTS

Inbound Refueler

Installer

VEND

TO MS

TO UNIT





# FSB, Fuel Process

"Sample and Testing"



FSB-TANKER-POOL



Retail Support

NUMBER in Convoy 3

1 11

Fuel of Convoy 130.00

REFUEL CUSTOMER (RETAIL ISSUE)

Fuel  
Pump

Report  
Fuel  
Usage

Back into Operation

" REFUEL  
CUSTOMER  
VEHICLE"

REFUEL TANKER (BULK ISSUE)

Bulk  
Issue  
Point

Report  
Fuel  
Usage

Refueler to Unit

BULK FUEL REQUEST

REQUEST AND RECEIPT OF BULK FUEL

REQUEST

FUEL DELIVERY

RECEIPT

INVENTORY



MBPAS



DEFUELS



ADJUSTMENTS



Customer

Refueler

Inbound Refueler

Installer

VEND

TO MS

TO UNIT





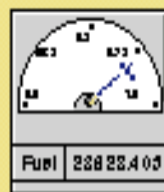


# FSB, Fuel Process

"Sample and Testing"



FSB-TANKER-POOL



Retail Support

NUMBER in Convoy 3

1 11

Fuel of Convoy 130.00

REFUEL CUSTOMER (RETAIL ISSUE)

Fuel  
Pump

Report  
Fuel  
Usage

Back into Operation

" REFUEL  
CUSTOMER  
VEHICLE"

Refueler

REFUEL TANKER (BULK ISSUE)

Bulk  
Issue  
Point

Report  
Fuel  
Usage

Refueler to Unit

BULK FUEL REQUEST

REQUEST AND RECEIPT OF BULK FUEL

REQUEST

RECEIPT

INVENTORY

FUEL DELIVERY



MBPAS



DEFUELS



ADJUSTMENTS

Inbound Refueler

Installer

VEND

TO MS

TO UNIT







## Receipt of Bulk Fuel



Annotate DA Form 2765-1, DD Form 1348, etc.  
with quantity received & sign

Volume correct to 60 degrees Fahrenheit if equal to or  
greater than 3,500 gallons

Assign a voucher number on DA Form 272  
(Register of Vouchers to a Stock Record Account)

Post receipt to Stock Record Accounting Card DA Form  
1296

Adjust balance



# FSB, Fuel Process

"Sample and Testing"



FSB-TANKER-POOL



Retail Support

NUMBER in Convoy 3

1 11

Fuel of Convoy 130.00

REFUEL CUSTOMER (RETAIL ISSUE)

Fuel  
Pump

Report  
Fuel  
Usage

Back into Operation

" REFUEL  
CUSTOMER  
VEHICLE"

REFUEL TANKER (BULK ISSUE)

Bulk  
Issue  
Point

Report  
Fuel  
Usage

Refueler to Unit

BULK FUEL REQUEST

REQUEST AND RECEIPT OF BULK FUEL

REQUEST

RECEIPT

INVENTORY

FUEL DELIVERY

MBPAS

DEFUELS

ADJUSTMENTS

Inbound Refueler

Installer

VEND

TO MS

TO UNIT





Retail

jump  
pause d"WEDNESDAY, 27 Jun 2001 3:38:13  
a.m."

BULK REQUEST

Wholesale

Industry

Customer

DD 1155

Refueler

Customer

MSB, Refueler

MBPAS  
REPORT

Customer

Customer

Unit Refueler

Non-Divisional Customer

Customer

Refueler

Back in Operation

Refueler

Customer

UNIT

FSB

MSB

DISCOM

COSCOM

CSB

INSTALLATION  
DOL

DD 1155 copy

APC

DESC

DESC  
AREA  
OFFICE

DFSP

VENDOR

Gas \$/b per Gall

1.0 ▽ 2.0  
1.5

Gas \$/b per Gall for the VENDOR

1.0 ▽ 4.0  
1.55



# Main Support BN



WSB-TANKER-POOL



TANKER

refueling-mode "TANKER"



WSB-BULK-STORAGE



Storage Tank

WSB Retail Support

Fuel of Convey 10000

Number of Tankers Requested

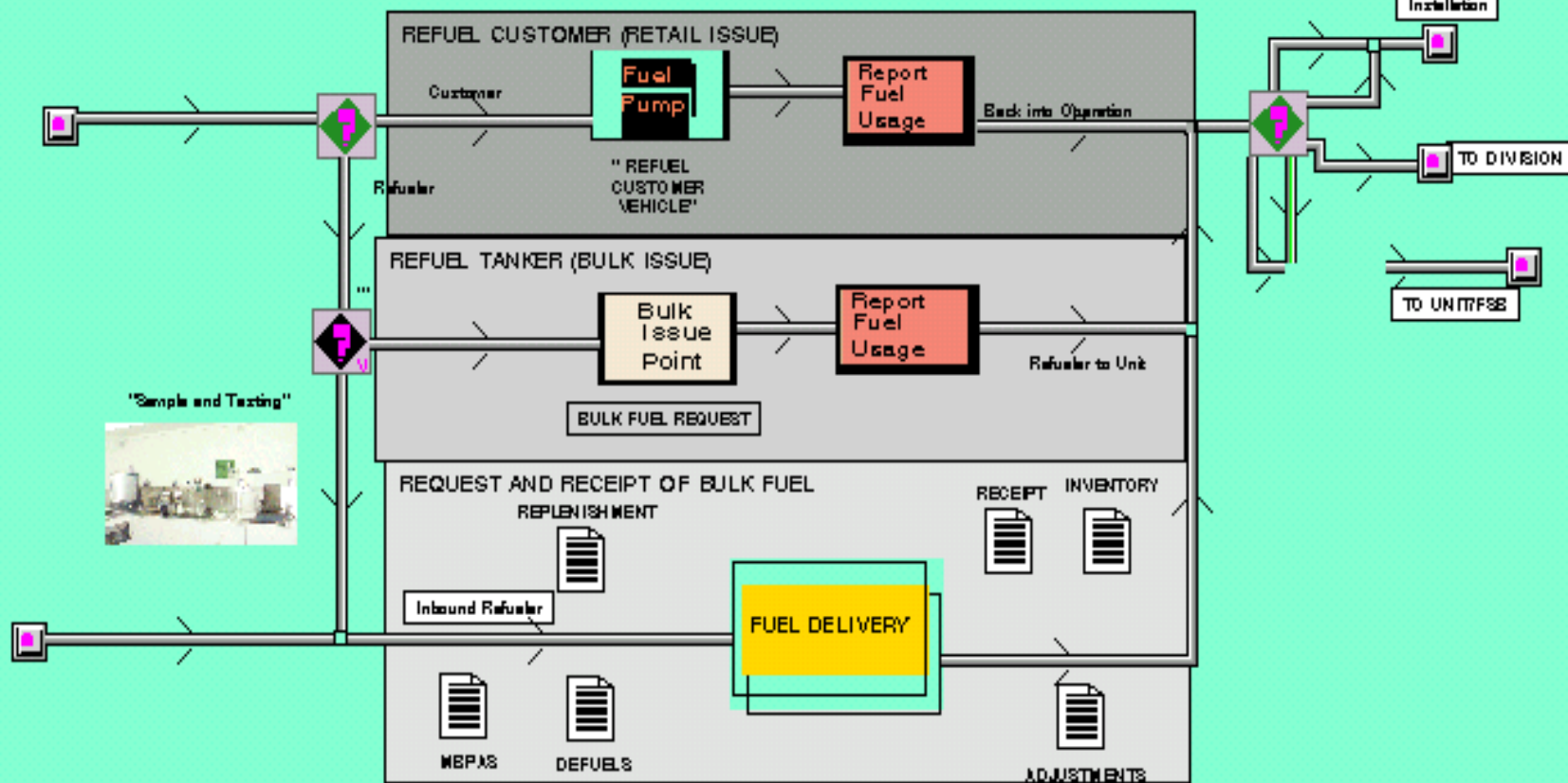
1 ▾ 10

Number in Convey

Fuel of Convey 10000

NUMBER OF TANKER

1 ▾ 24



"DA FORM 278-7"



### RETAIL ISSUE

AVFUEL-IDENTAPLATE



Report Fuel Usage

Back into Operation

Customer

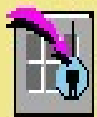


VEN  
Inc

TO D

TO

refueling-mode "TANKER MODE"



REFUELING-VEHICLES

### REFUEL TANKER (BULK ISSUE)

Refueler



Refueler to Unit



"Report FUEL Usage"

TANKER

### REQUEST AND RECEIPT OF BULK FUEL

ORDER

RECEIPT



Storage Tank



"Sample and Testing"



INVENTORY

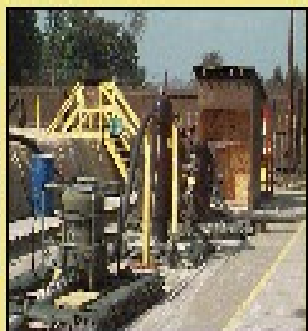


DEFUELS



ADJUSTMENTS

"ASB BULK FUEL"



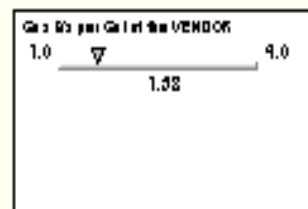
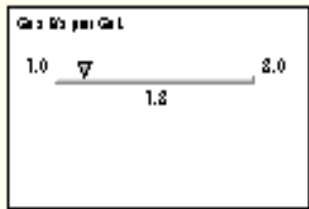
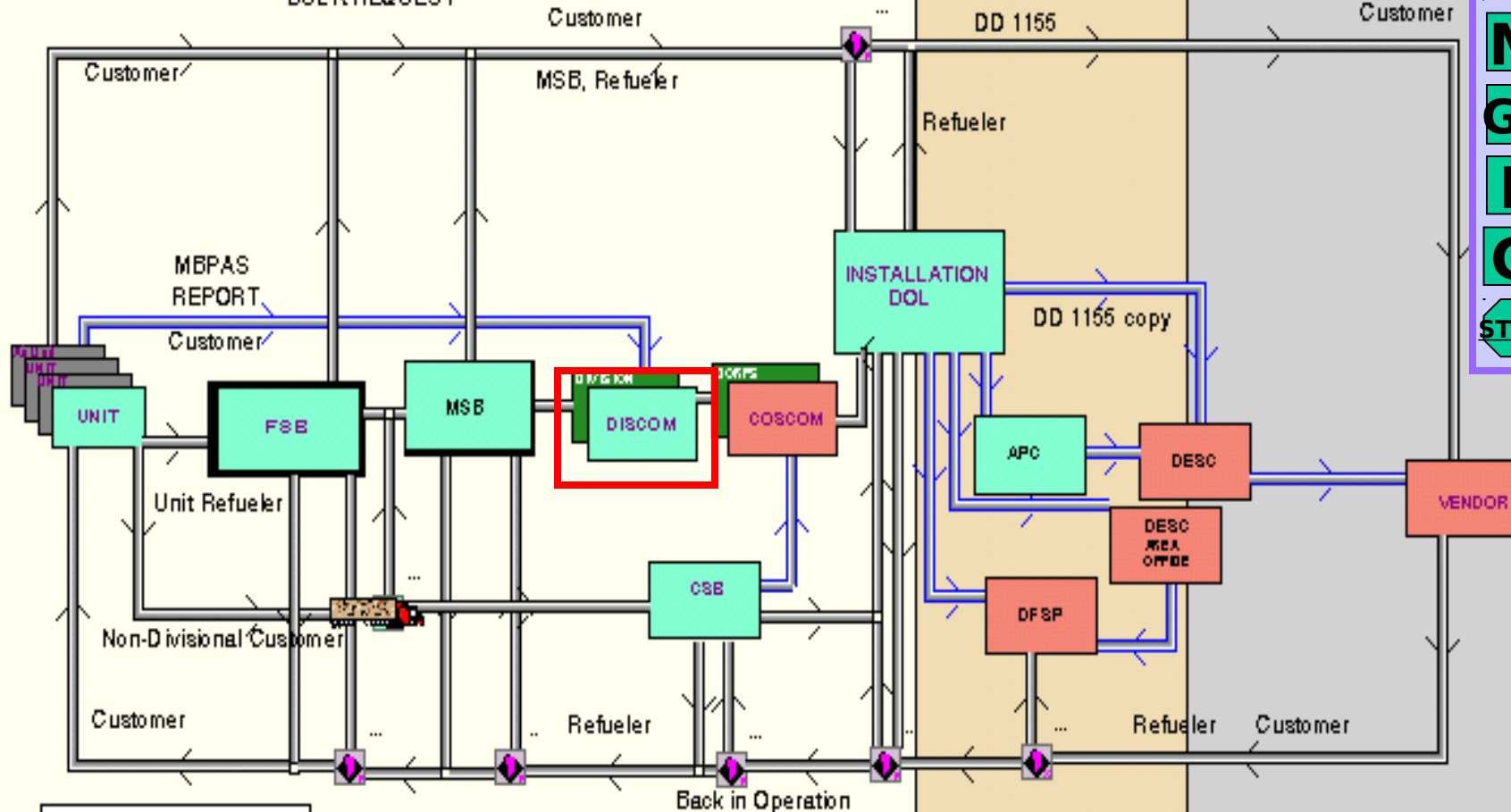


Retail



jump  
paused  
"WEDNESDAY, 27 Jun 2001 3:38:13  
a.m."

BULK REQUEST





## Division, DISCOM



"MBPAS"

Receives MBPAS from  
Division Units

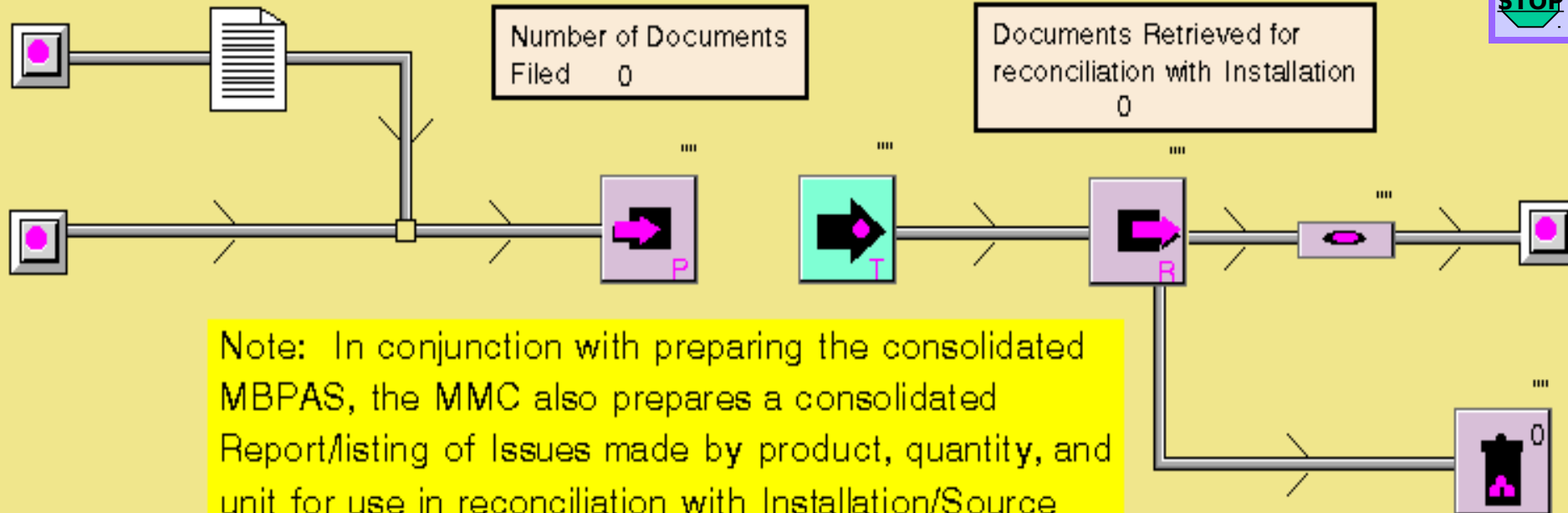
Monthly Bulk Petroleum Accounting Summary  
Consolidated fuel usage report

MBPAS reports are consolidated  
at Division then passed to Installation

MBPAS

Number of Documents  
Filed 0

Documents Retrieved for  
reconciliation with Installation  
0





Retail

jump  
pause d"WEDNESDAY, 27 Jun 2001 3:38:13  
a.m."

BULK REQUEST

Wholesale

Industry

Customer

DD 1155

Refueler

Customer

MSB, Refueler

Customer

MBPAS  
REPORT

Customer

UNIT

FSB

MSB

DISCOM

COSCOM

INSTALLATION  
DOL

DD 1155 copy

APC

DESC

VENDOR

Unit Refueler

Non-Divisional Customer

Customer

Refueler

Back in Operation

Refueler

Customer

CSB

Gas \$/b per Gall

1.0 1.2 2.0

Gas \$/b per Gall for the VENDOR

1.0 1.25 4.0





# CSB Fuel Process



OSR REFUELER



refueling mode "TANKER"

OSR Retail Support

Number of Tankers

1  4

TANKER Fuel of Convey 10000



OSR FUEL STORAGE

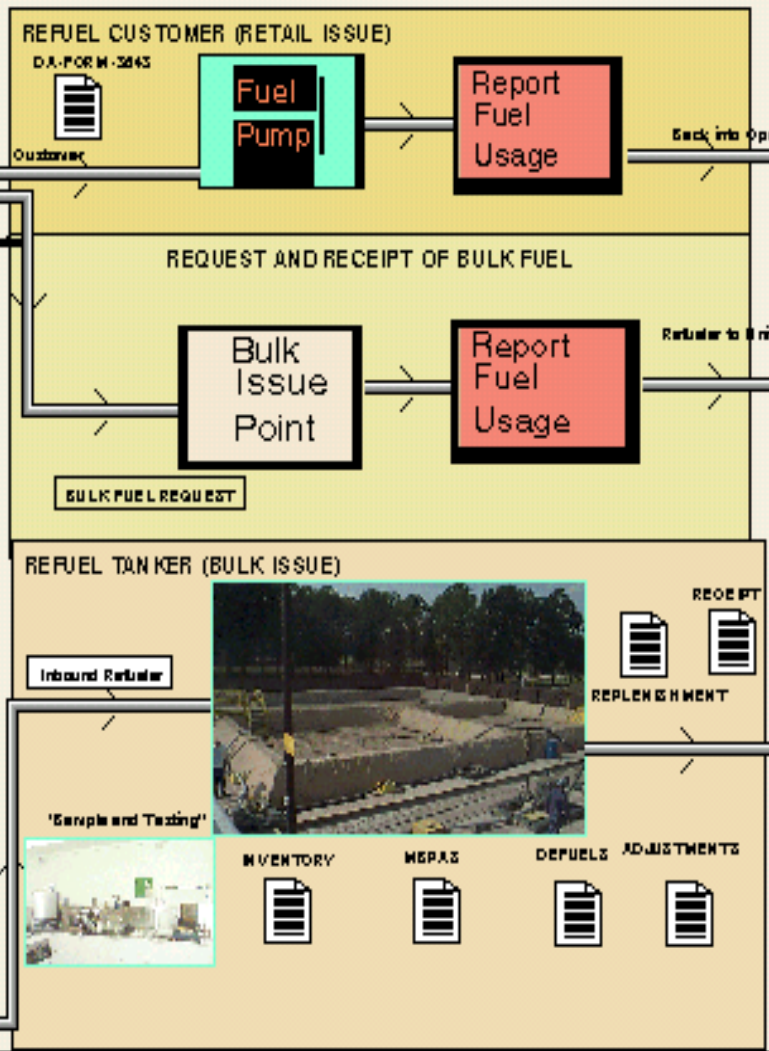


OSR Bulk Support

Number of Tankers in Convey

1  5

Storage Tank Fuel of Convey 10000





Retail

jump  
pause d"WEDNESDAY, 27 Jun 2001 3:38:13  
a.m."

BULK REQUEST

Wholesale

Industry

Customer

DD 1155

Refueler

Customer

MSB, Refueler

Customer

MBPAS  
REPORT

Customer

UNIT

FSB

MSB

DISCOM

COSCOM

INSTALLATION  
DOL

DD 1155 copy

APC

DESC

VENDOR

DESC  
AREA  
OFFICE

DFSP

CSB

Non-Divisional Customer

Customer

Refueler

Refueler

Customer

Back in Operation

Gas \$/b per Gall

1.0

1.2

2.0

Gas \$/b per Gall for the VENDOR

1.0

1.25

4.0





Retail



jump  
pause d  
"WEDNESDAY, 27 Jun 2001 5:38:13  
a.m."

BULK REQUEST

Wholesale

Industry

Customer

DD 1155

Customer

MSB, Refueler

Refueler

MBPAS  
REPORT

Customer

INSTALLATION  
DOL

DD 1155 copy

UNIT

F8B

MSB

DISCOM

COSCOM

APC

DESC

VENDOR

Unit Refueler

Non-Divisional Customer

CSB

DFSP

DESC  
AREA  
OFFICE

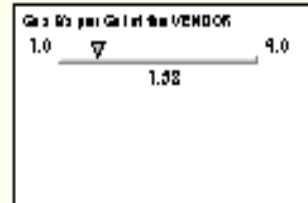
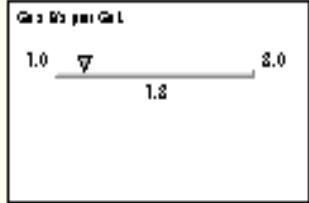
Customer

Refueler

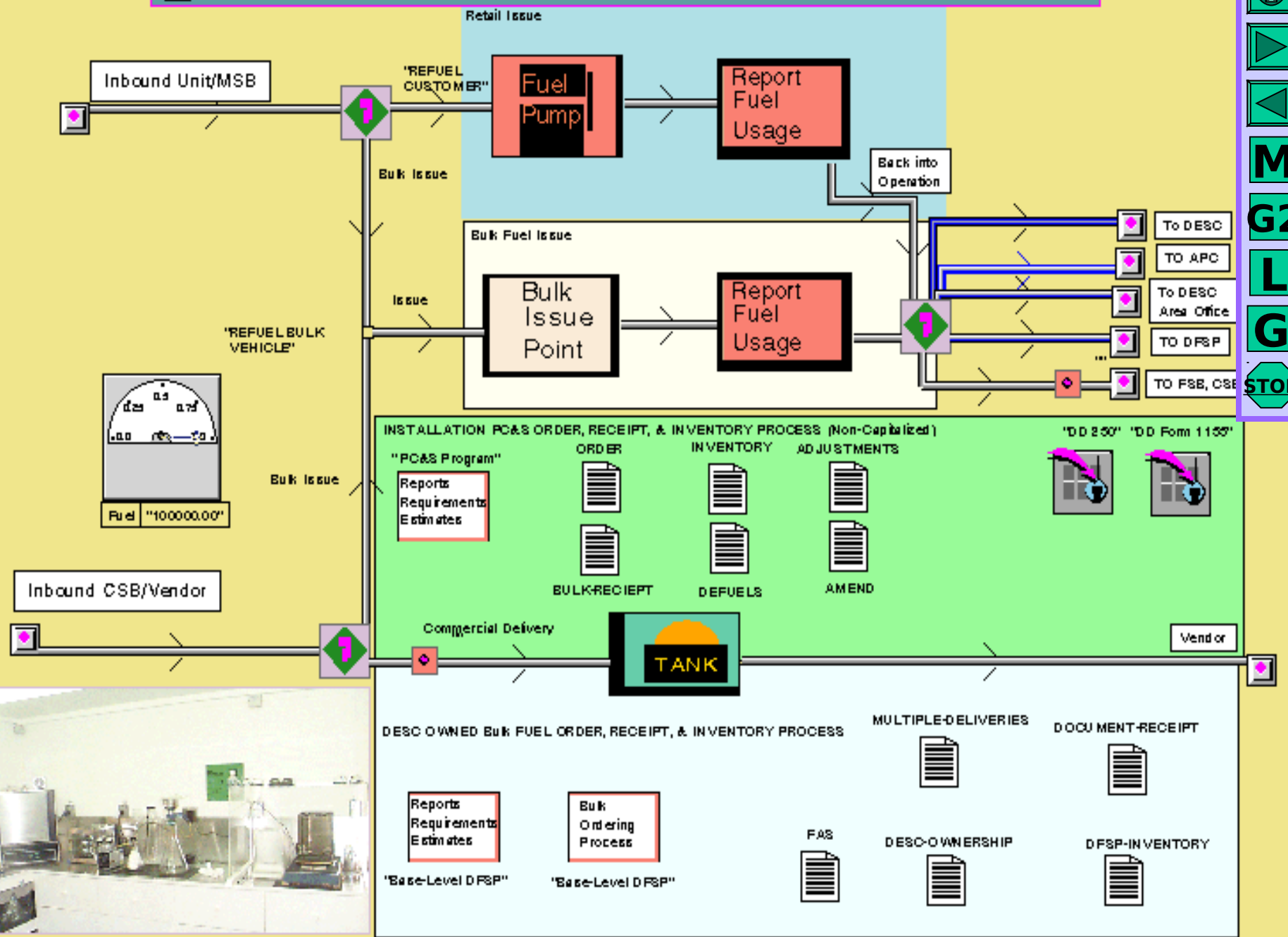
Refueler

Customer

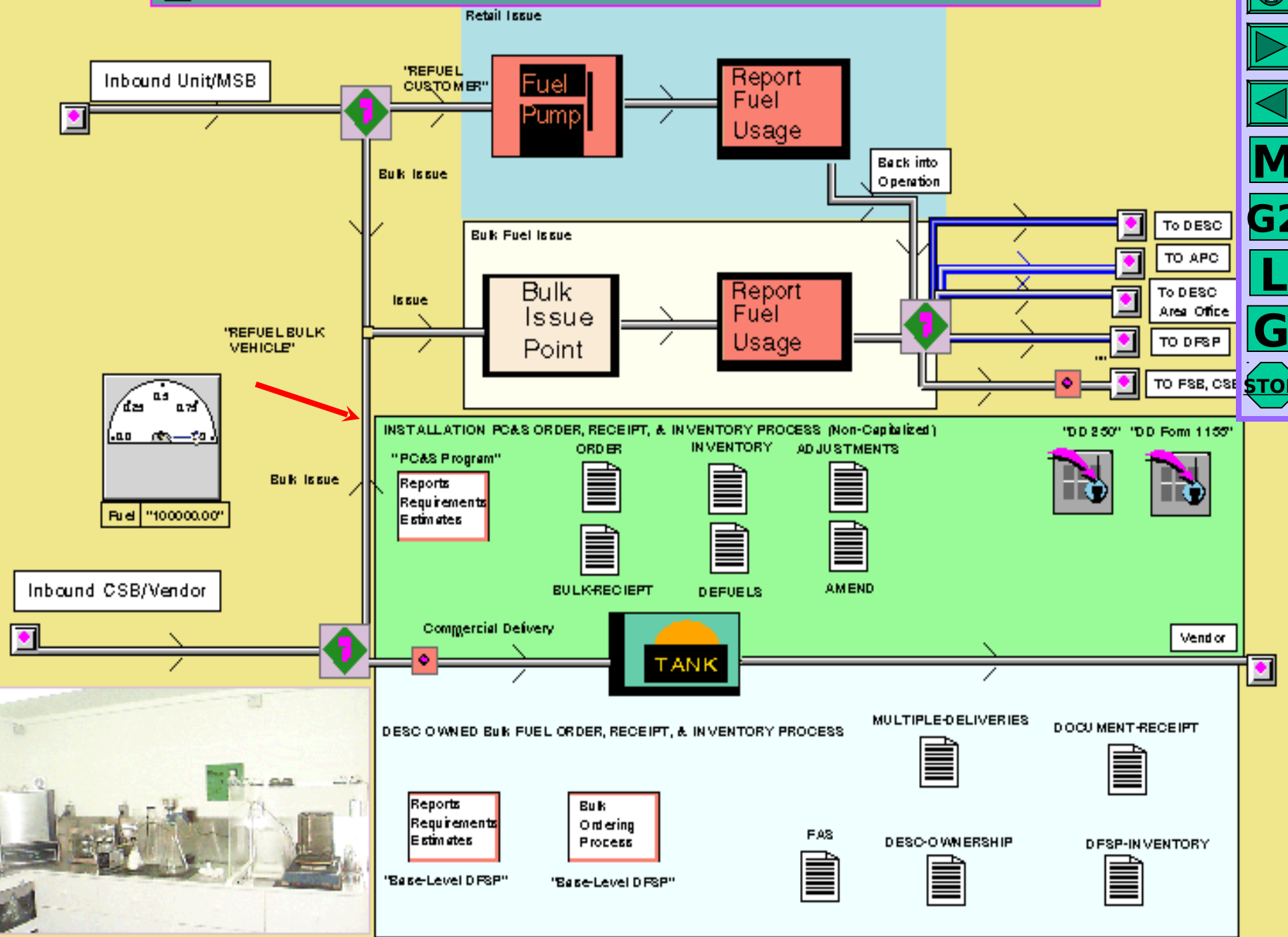
Back in Operation



# Installation Petroleum Process

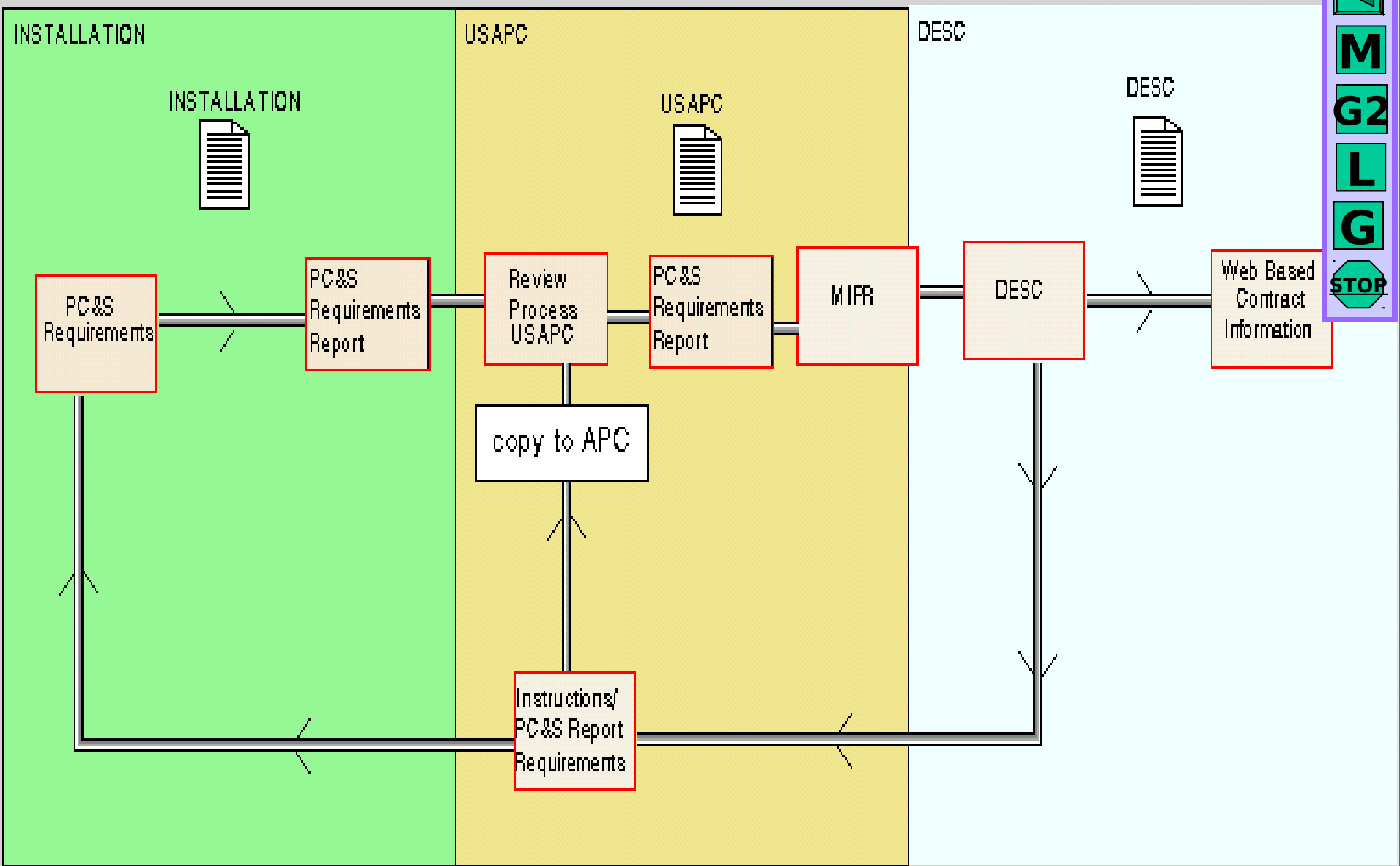


# Installation Petroleum Process

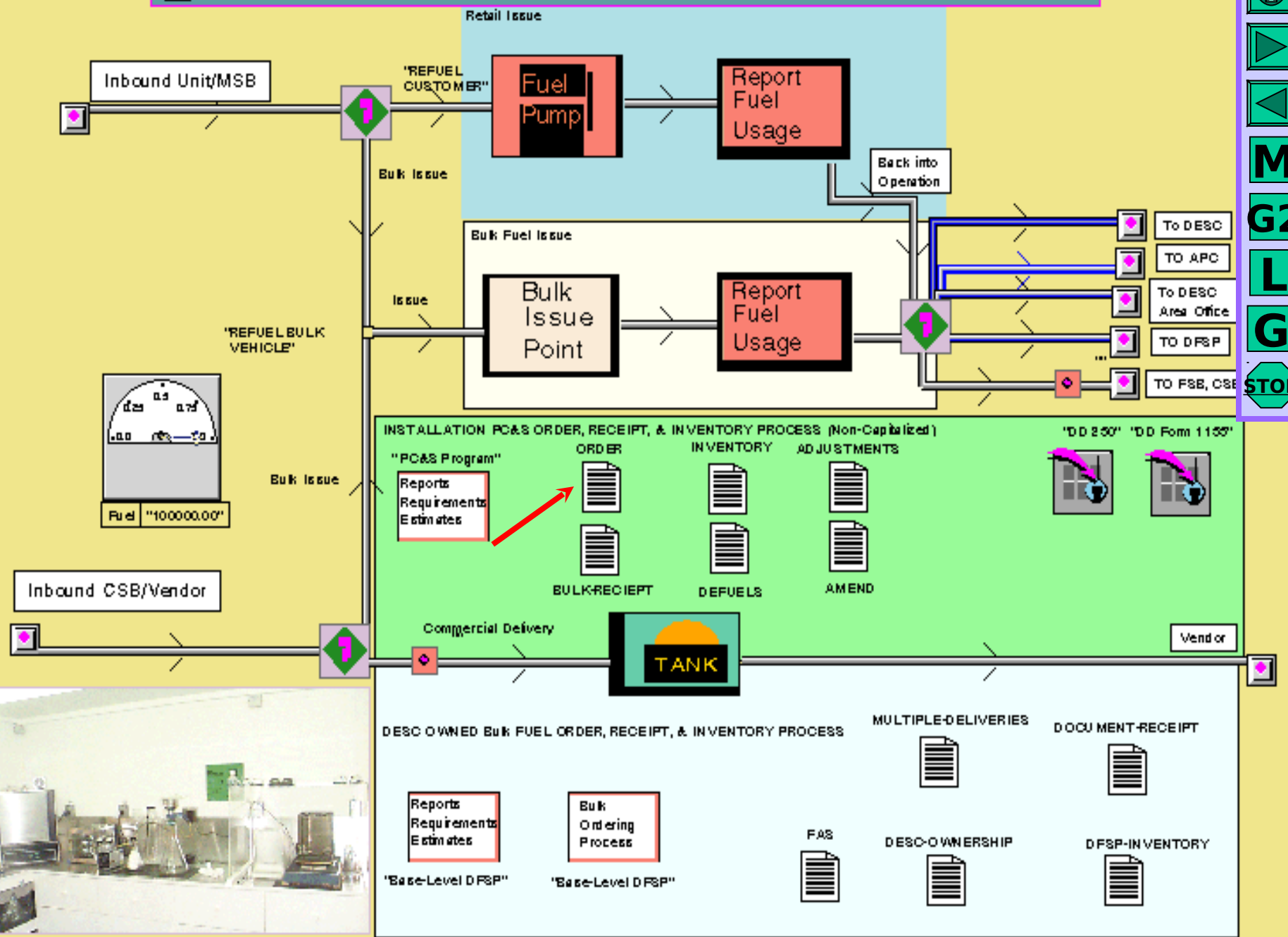


# PC&S Program Requirements





# Installation Petroleum Process





Under Post, Camp, and Station Program (PC&S)

Determine Source,  
from the DESC Contract Information  
System (CIS) on the Web.

If Automated - using Paperless Ordering  
& Receipt Transaction Screens (PORTS),  
Prepare & electronically send orders to  
DESC and contract source

If Manual - Prepare separate DD Form 1155 for each  
separate  
Contract Line Item Number (CLIN) required.

Send to Contractor

Send copy to DESC within 2 working days for input to  
Defense Fuels Automated Management System (DFAMS)

Within 24 hours, follow-up any Verbal Orders placed with  
Contractor, with written order, by mail/fax.







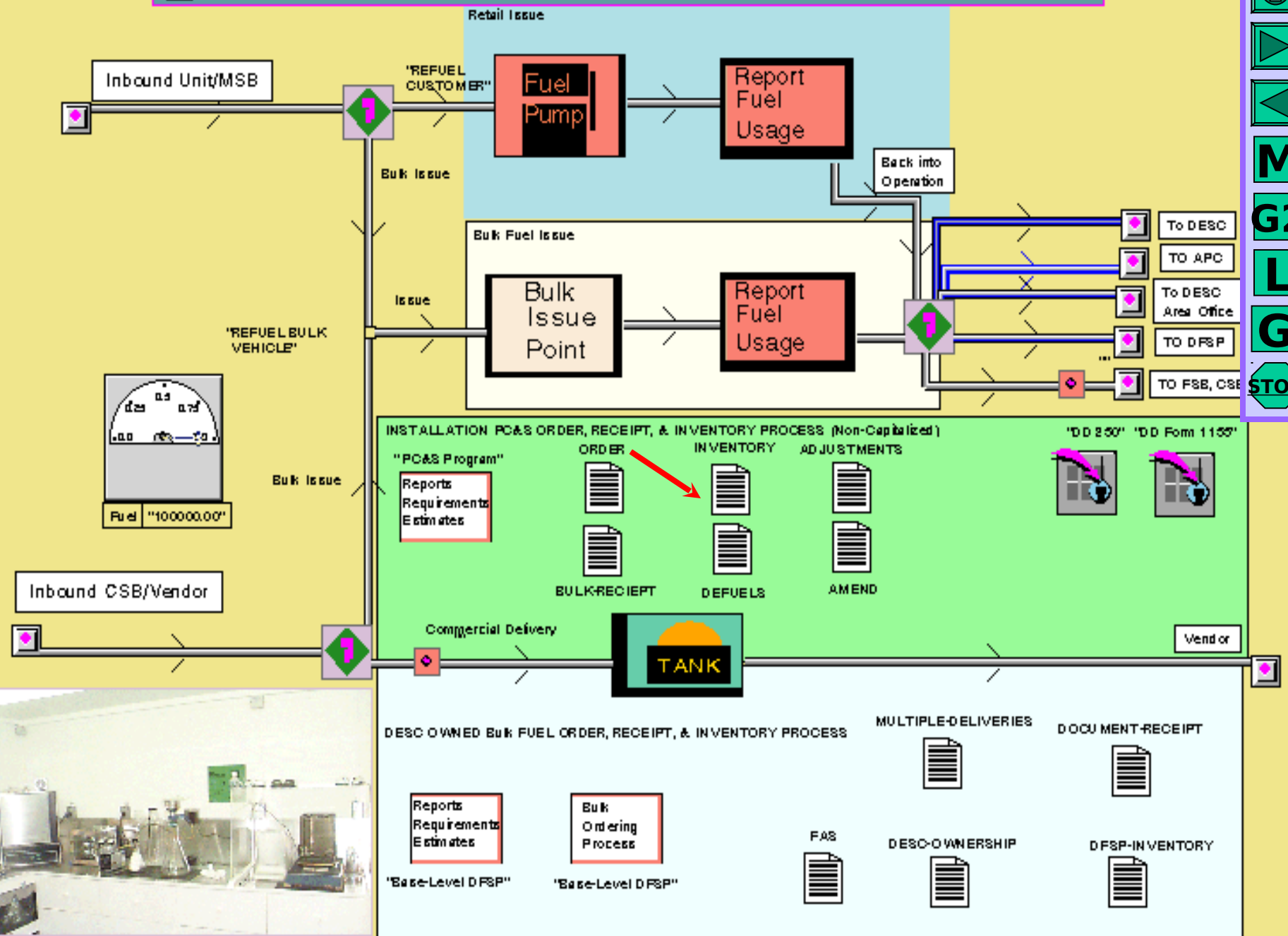
## Information

### Document Receipt

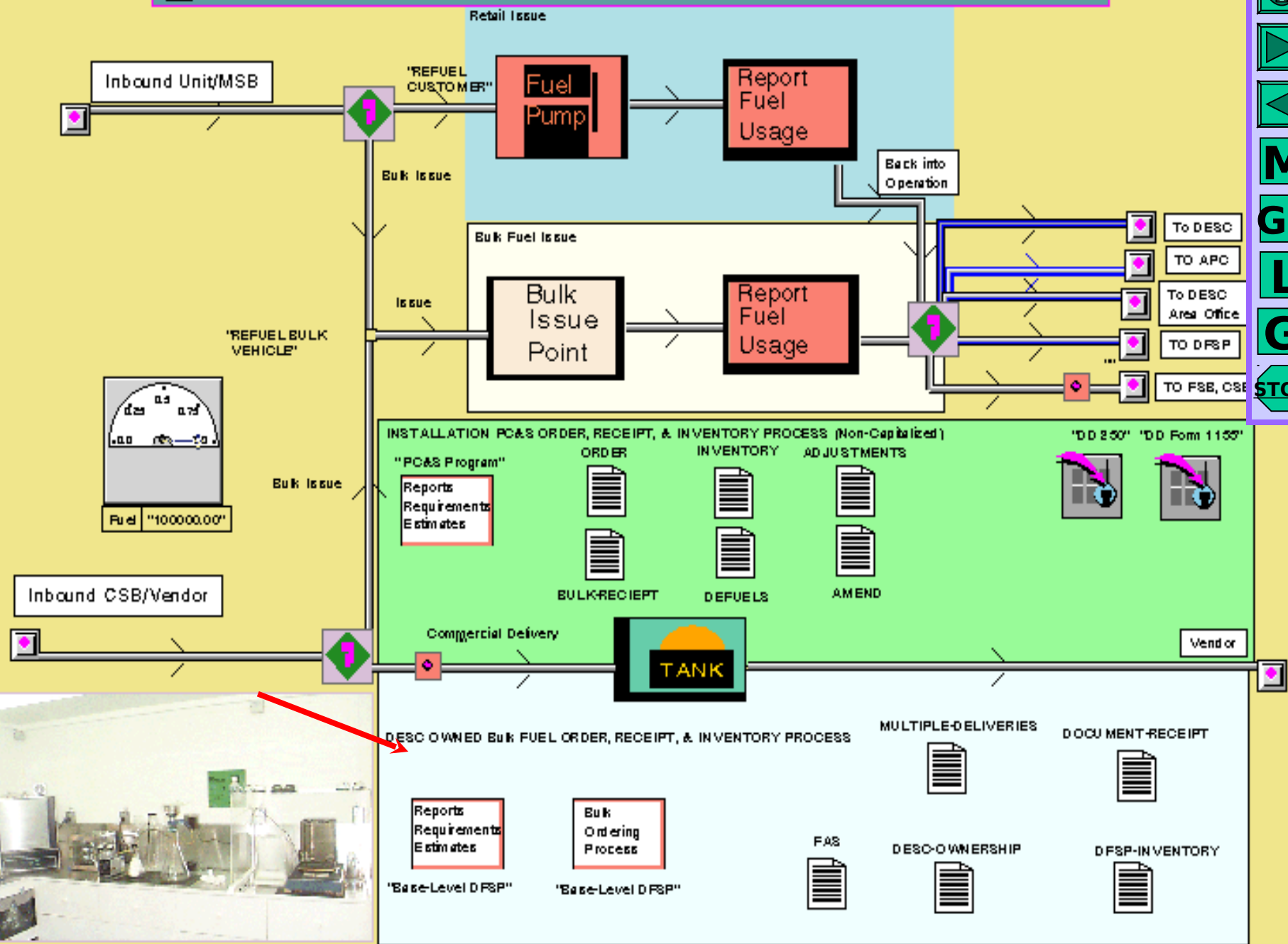
On DD Form 1155 if single delivery  
On DD Form 250 (Material Receiving and Inspection Report) if multiple deliveries on order.  
On DD Form 250-1 (Tanker/Barge Material Inspection and Receiving Report) if delivered by water  
Use DA Form 3857 (Commercial Deliveries of Bulk Petroleum Products Checklist)  
Check that seals/serial numbers are intact when required  
Check for water in tank  
Take Quality Surveillance Samples as required - perform Aqua-Glo Test  
Determine quantity delivered by one of the following means:  
Accept quantity registered by a Certified Meter on Delivery Vehicle  
Accept quantity determined by weight on Certified Scales  
Accept quantity determined from Certified Capacity Tables from Delivery Vehicle  
Accept quantity registered by meter on receiving Tank System  
Record quantity on all Receiving Documents  
Process Automated Receipt Document in PORTS, or if under manual processing, send copy of receiving document (DD Form 1155, DD Form 250, or DD Form 250-1) to DESC within 2 working days  
Post receipt to Accountable Records



# Installation Petroleum Process

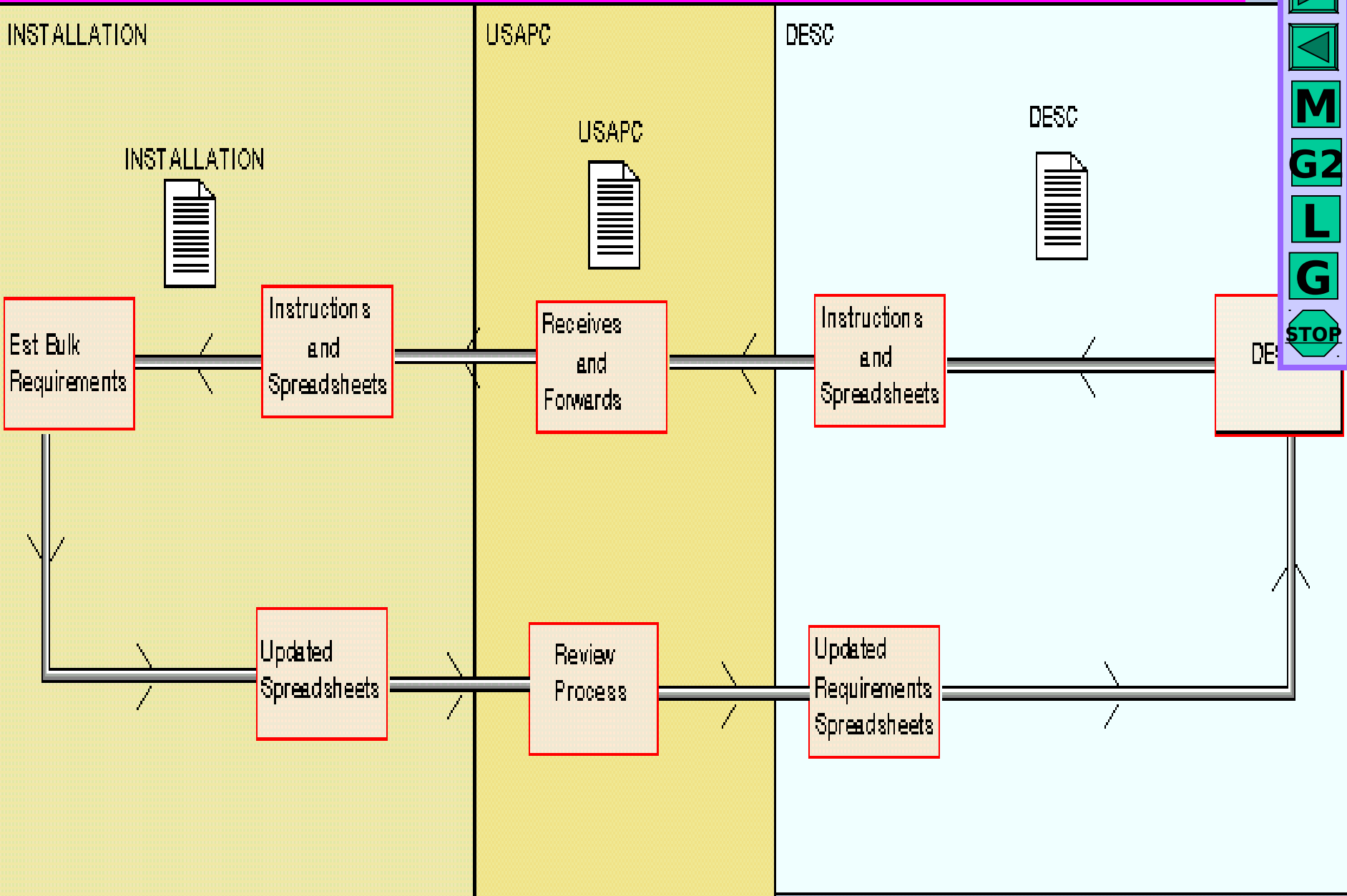


# Installation Petroleum Process

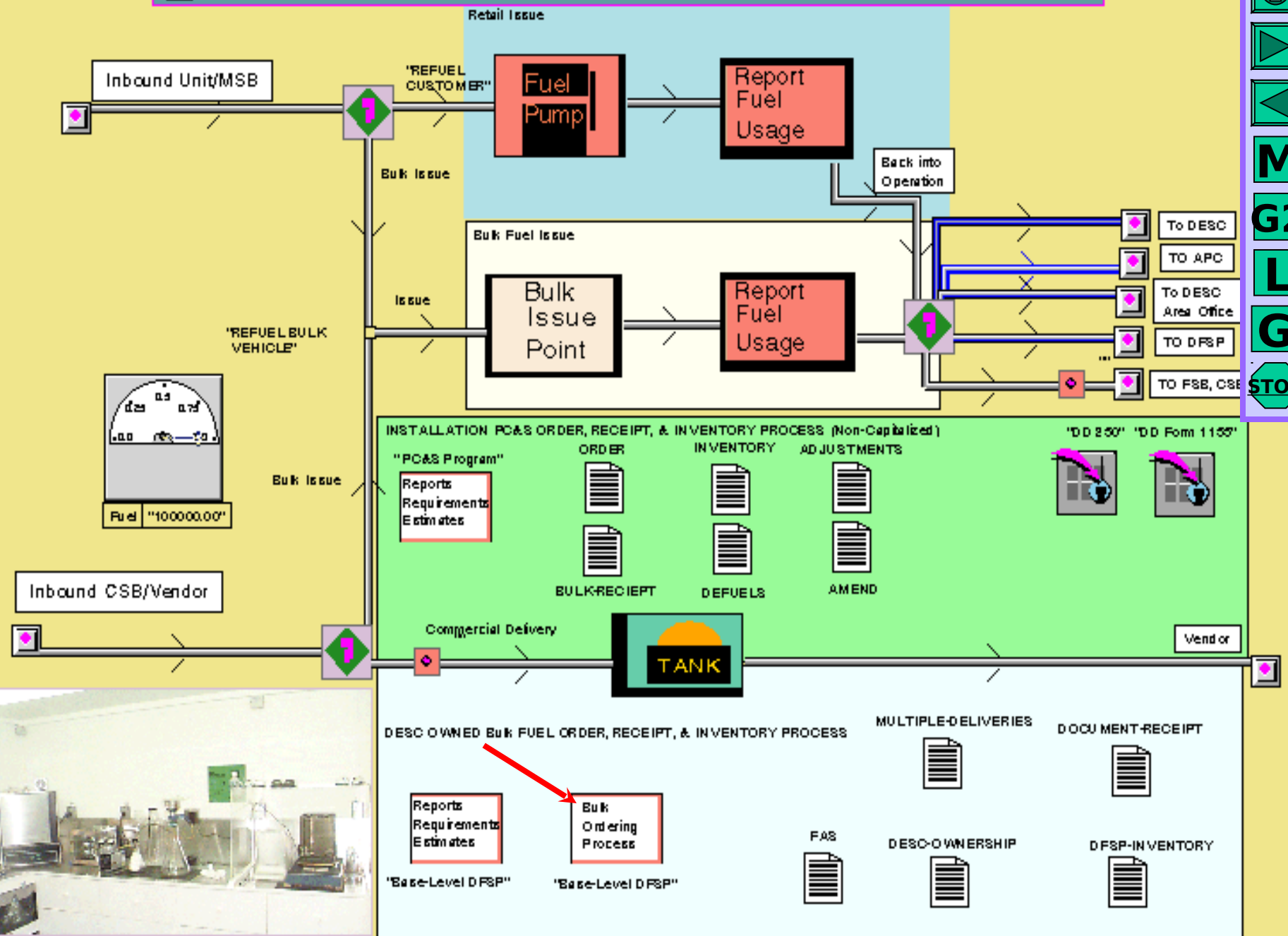




# Base-Level DFSP Bulk Requirements



# Installation Petroleum Process





# Bulk Fuel Ordering Process



Base-Level DFSP with Contract Source of Supply

DESC AREA OFFICE

CONTRACTED DESIGNATED SOURCE

EXPLANATION

NOTE

More Detail

Installation  
as  
BASE-LEVEL  
DFSP

Requirements

DESC  
AREA  
OFFICE

DD Form  
1155

Contracted  
Designated  
Source

DD Form  
1155 Copy

Coordinate  
Arrange  
Deliveries

Coordinate  
Arrange  
Deliveries

Receipt  
DD Form 250

The Base-Level DFSP now coordinates directly with the contractor for arranging deliveries of fuel against the DD Form 1155 order placed by the DESC Area Office

The contractor generates a DD Form 250 (Material Receiving and Inspection Report) to accompany the shipment to the Base-Level DFSP

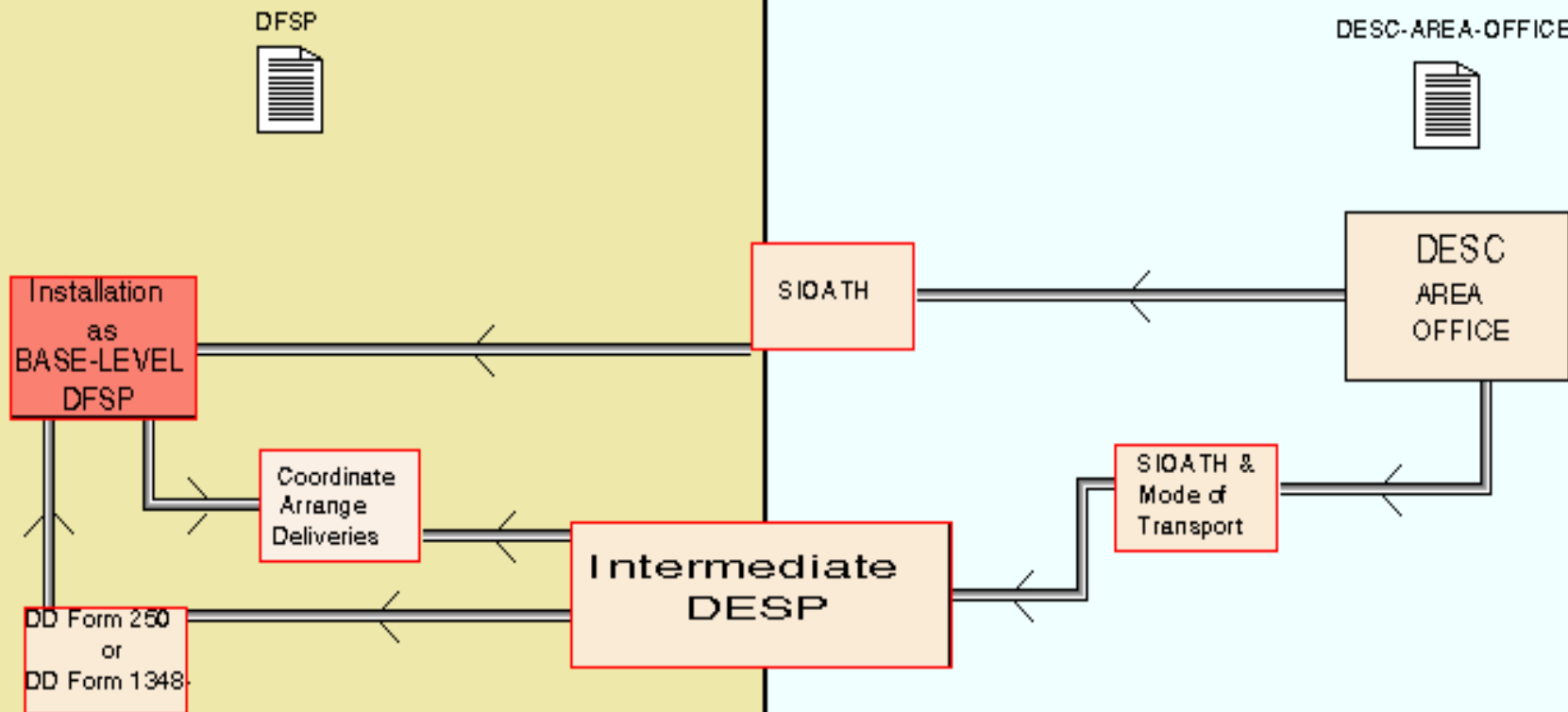
The Base-Level DFSP notifies the DESC Area Office of any significant changes in requirements which would require an amendment to the Delivery Order (DD Form 1155)

The DESC Area Office enters P10 (Delivery Order/Amendment) type transaction into DFAMS/FAS.

# Bulk Fuel Ordering Process

Base-Level DFSP with a DESP as a Source of Supply

DESC Area Office issues SIOATH



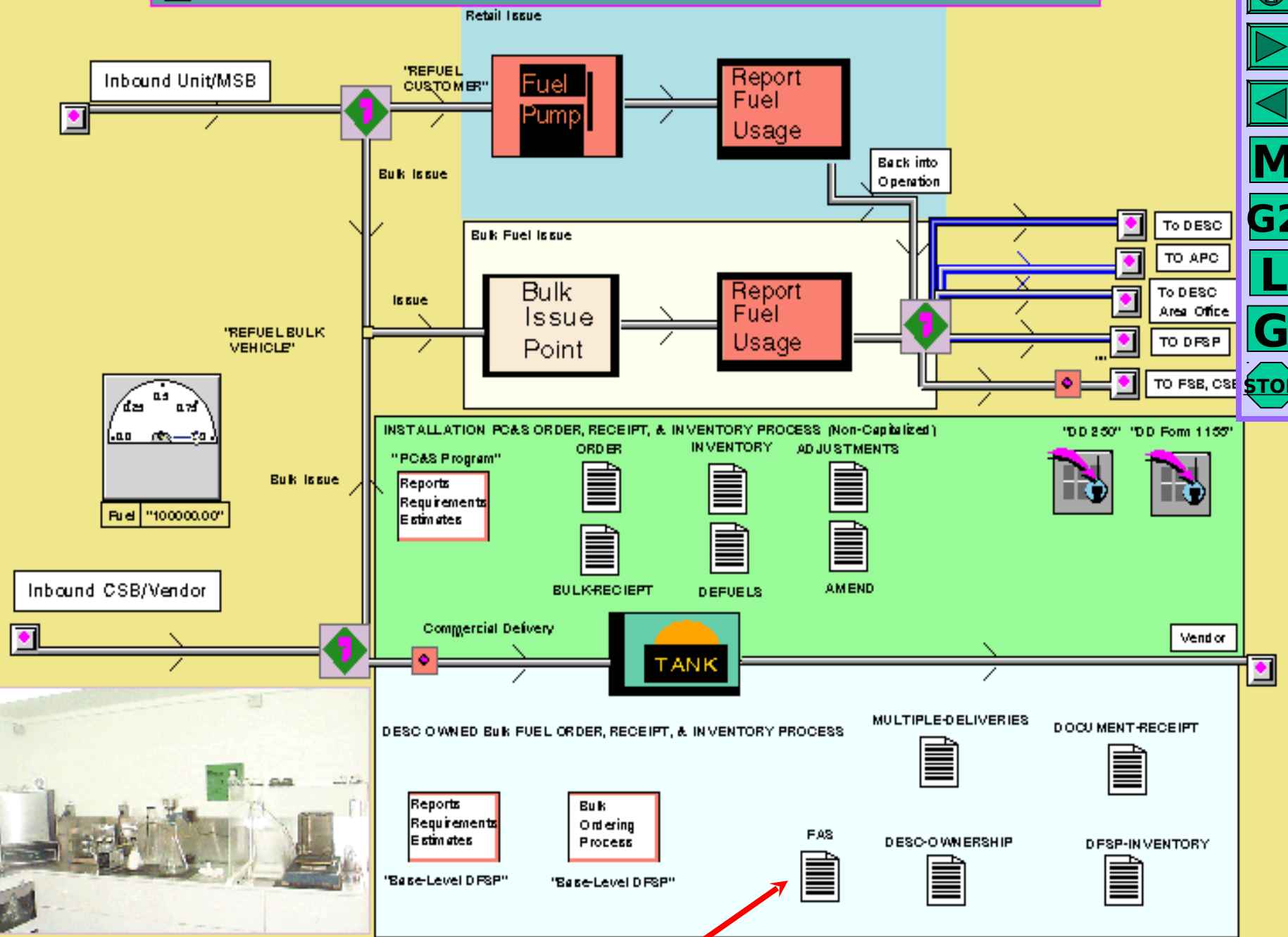
NOTE



The Base-Level DFSP coordinates requirements for fuel deliveries with its supporting DESP designated in the SIOATH.



# Installation Petroleum Process







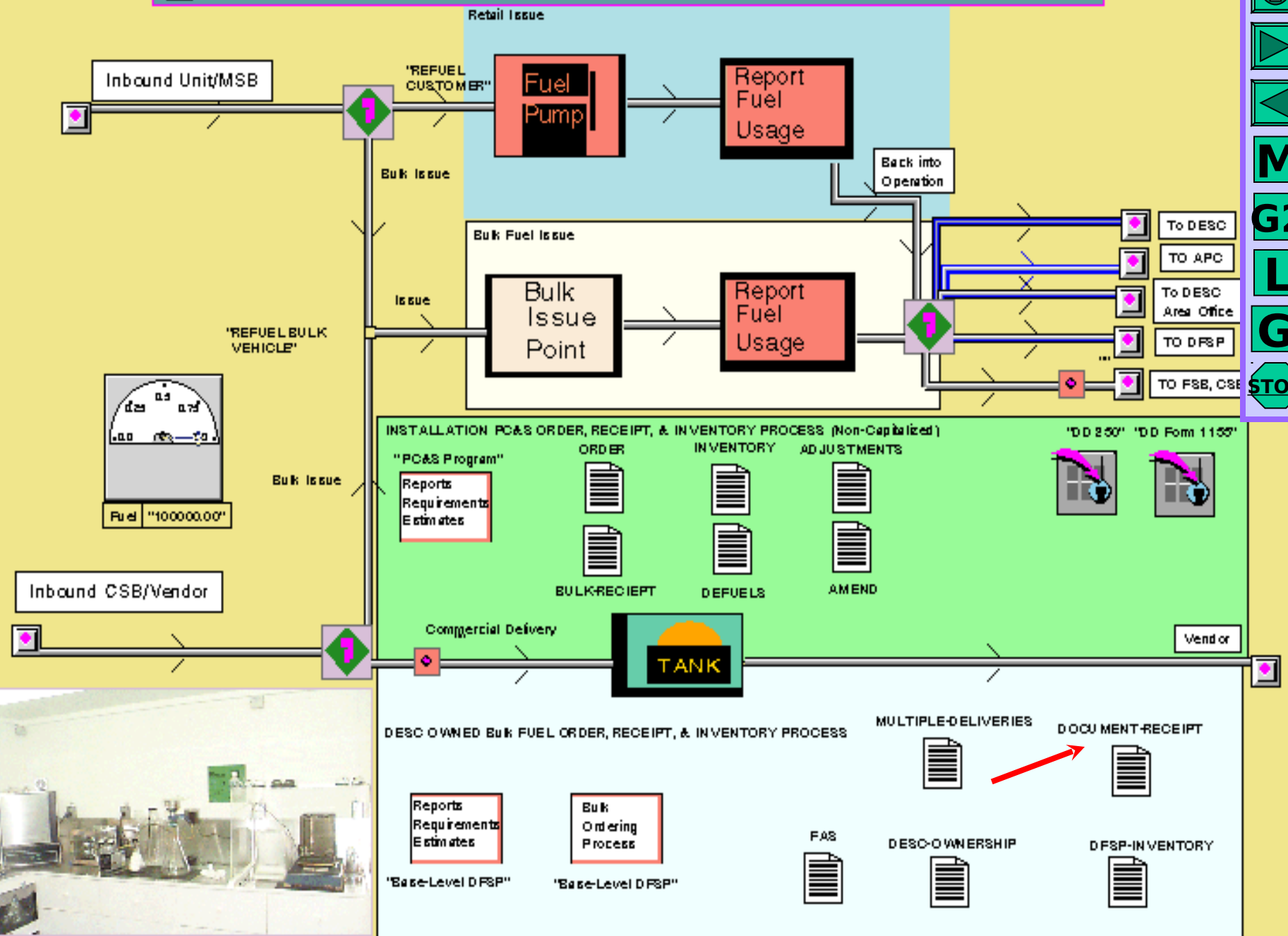
## Fuels Automated System (FAS)

The Fuels Automated System (FAS) is being implemented throughout the Army in conjunction with the capitalization of Army-owned bulk fuel. FAS was designed by DESC to facilitate point-of-sale data collection, timely inventory control, and give decision-makers real-time access to distribution, finance and accounting, and other management data.

At the installation, the Fuels Control Center (FCC), the base element of FAS, provides automation support for many of the functions that were previously performed manually, as well as providing interface with the Defense Fuels Automated Management System (DFAMS) and supporting financial systems for inventory and billing data. The Base Level DFSP functions described in this model, such as the DFAMS input for receipts, sales, and inventory, are entered utilizing the FCC front-end interface to FAS.



# Installation Petroleum Process





## Document Receipt

Inspect/verify seals are intact as required.

Visually examine sample of product.

Check for presence of water.

Verify quantity and document on DD Form 250.

If from a DFSP, and a temperature compensating meter was used to determine shipment quantity, accept quantity shipped as quantity received.

(DOD 4140.25-M, Chapter 5)

If FOB Origin from Contractor Refinery/Terminal the quantity is determined by Certified Capacity Tables, calibrated meter or weight by calibrated scale.

Report quantity/quality discrepancies to DESC and DESC Area Office. Initiate SF 361 - Transportation Discrepancy Report or SF 368- Product Quality Deficiency Report.

Enter receipt transaction into DFAMS

- DIC P32 (Receipt by a DFSP from a DESP/DFSP)

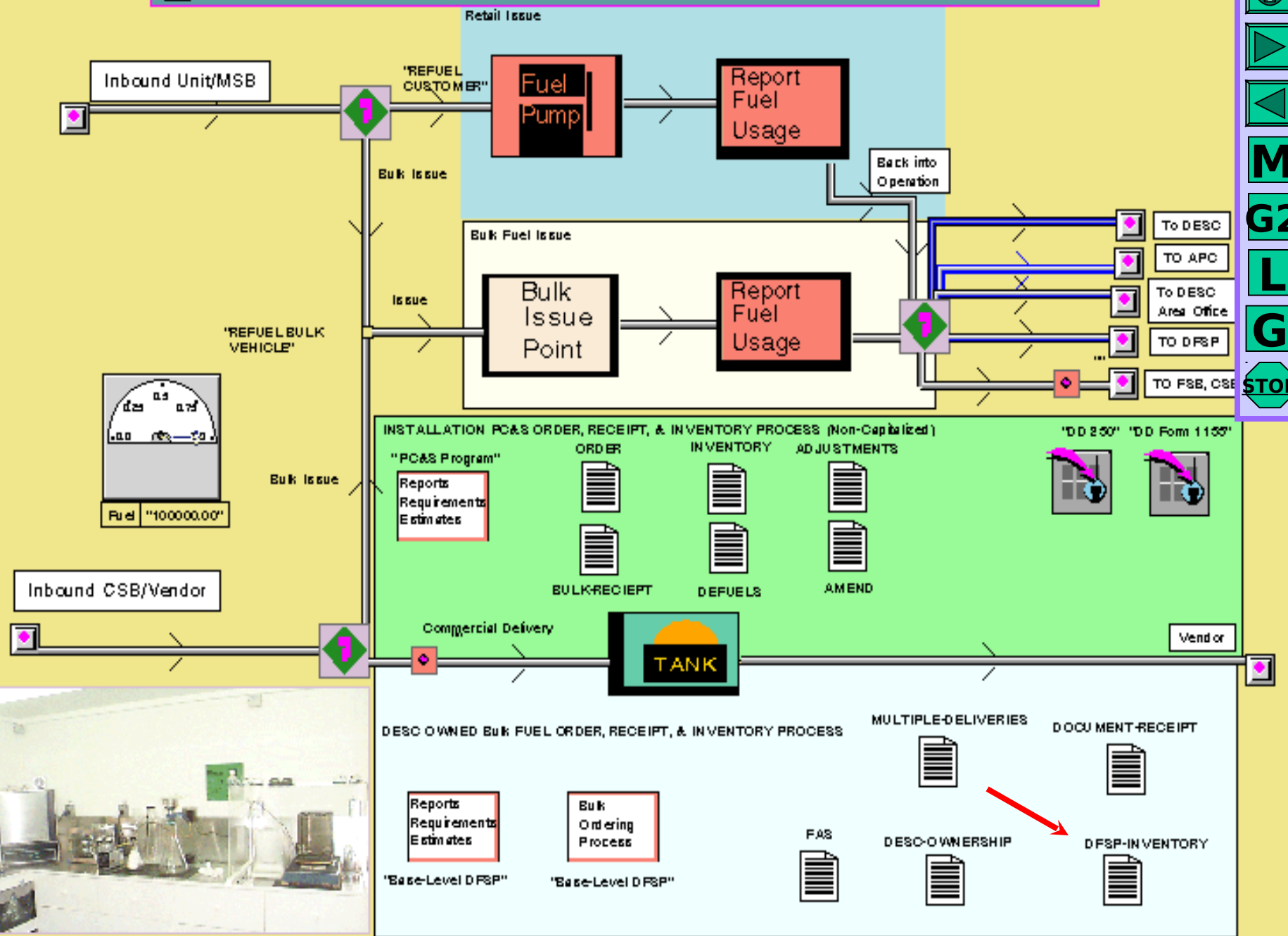
- DIC P30 (Receipt from a Contractor)

- For De-fuels, enter a DIC P2B into DFAMS based on DD Form 1898 quantity.

Activities operating under FAS will perform the above functions using appropriate system procedures.



# Installation Petroleum Process



## Wholesale level Inventory

### Weekly

Perform Weekly Inventory as of 0800 each Friday. Volume correct to 60 degree fahrenheit. When the physical inventory for any reportable product is greater than 500 Barrels, prepare and send Bulk Petroleum Terminal Message Report (RCS: DLA(W) 1884 (DESC) to DESC HQ and DESC Area Office, via DFAMS Asynchronous Dial-up System (DADS) or priority message. Installations using the FAS Enterprise Server (FES) will submit the report via FES.

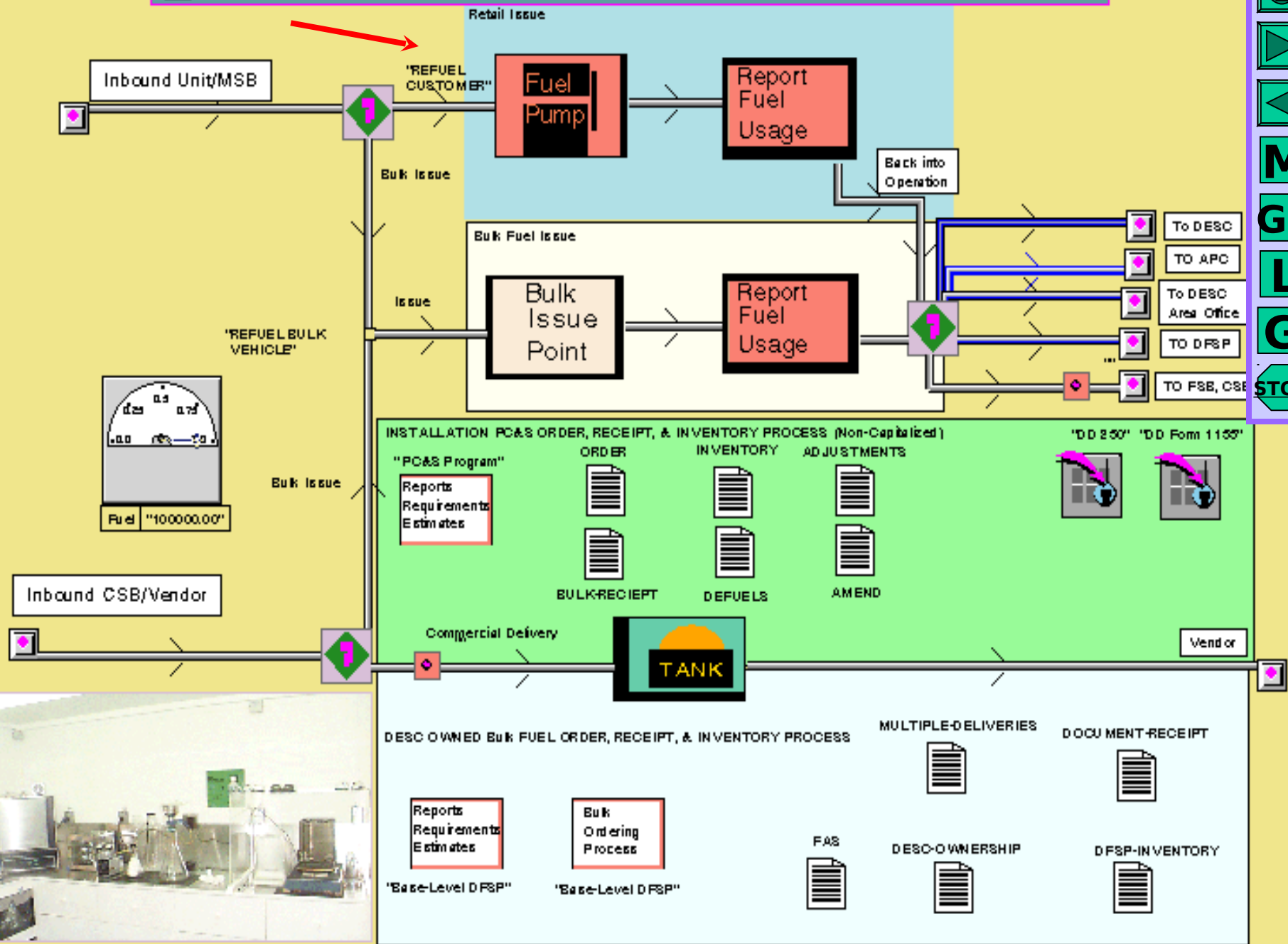
### Monthly

Conduct Monthly Physical Inventory as of 0800 hrs, on the first day of each month. Volume correct to 60 degrees fahrenheit.  
Enter DIC "P41" (Physical Inventory) transaction into DFAMS.  
Inventory variances within tolerance factors are reconciled by DFAMS computer generated Inventory Adjustments (DIC P42).  
Verify P42 loss/gain quantities, research discrepancies. There are Reason Codes on the P42 to indicate reason for adjustment.  
Coordinate with DESC HQ on resolving out of tolerance gain/losses.  
Monthly DFSP's also enter DIC P43 (Condition/Identity Change) transactions into DFAMS for regraded products or additives.

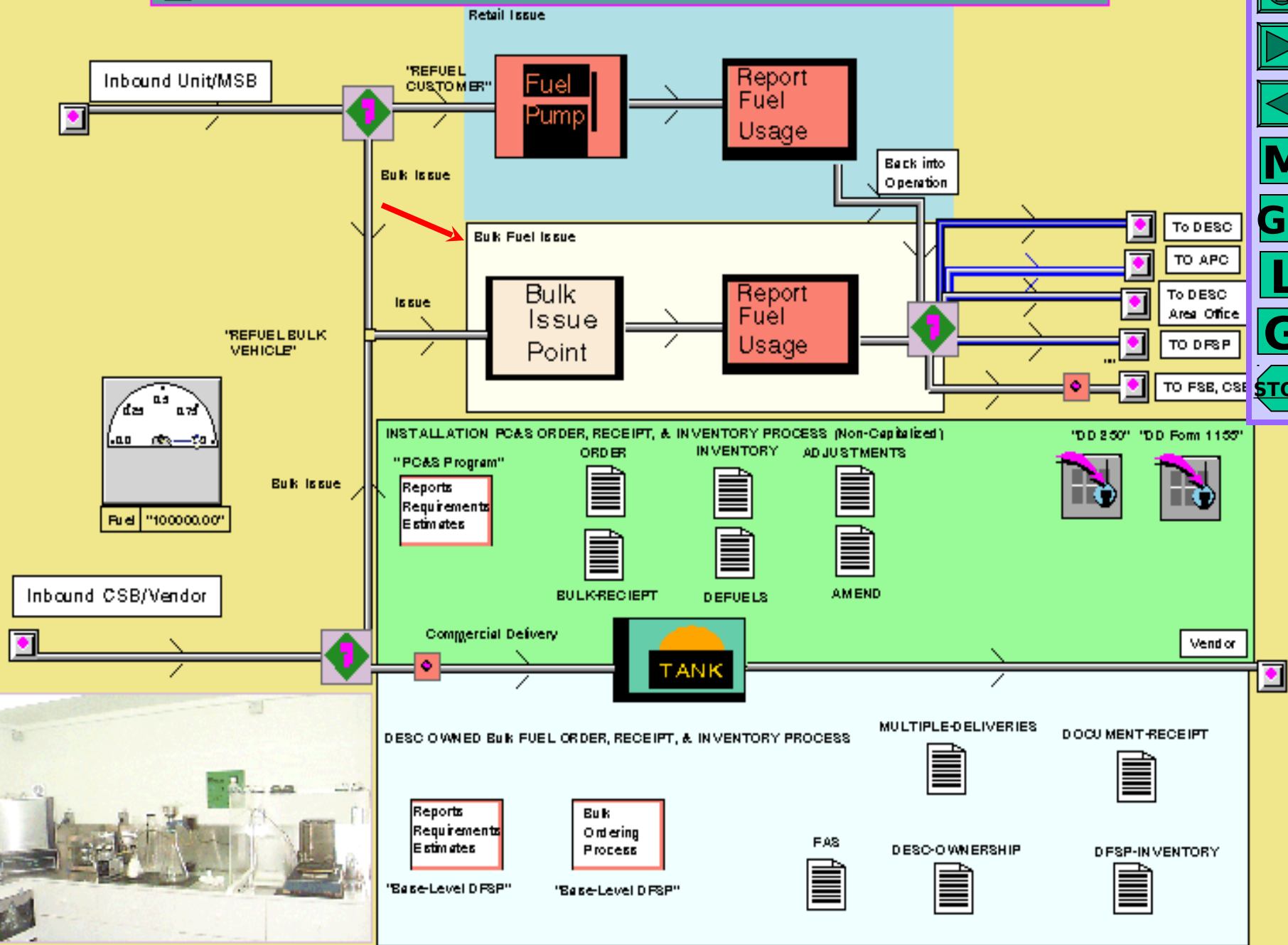
Activities operating under FAS will perform the above functions using appropriate systems procedures. Activities reporting through FES are required to submit a monthly inventory adjustment transaction (DIC P42) as a necessary part of the cycle regardless of quantity variances.

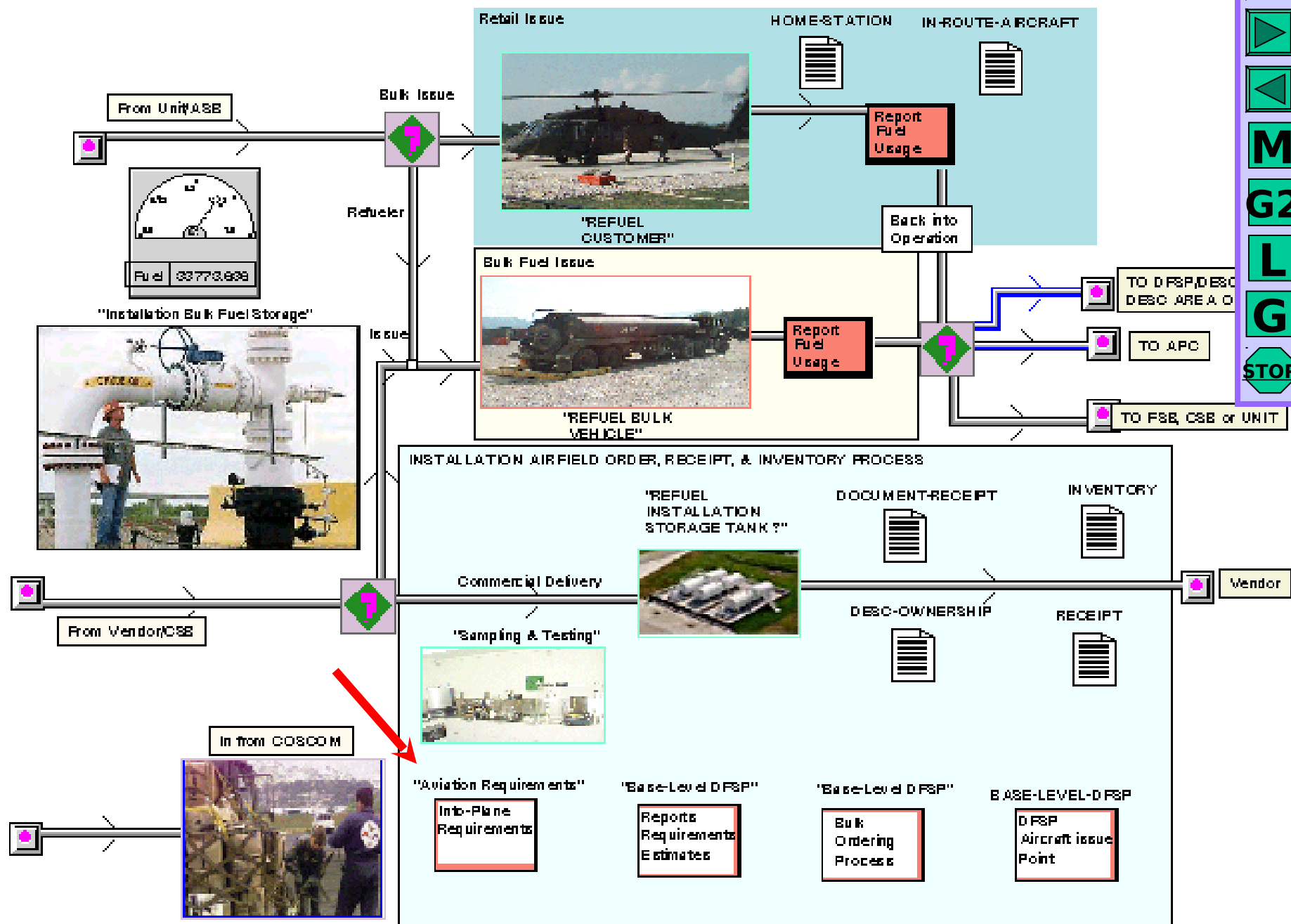


# Installation Petroleum Process



# Installation Petroleum Process

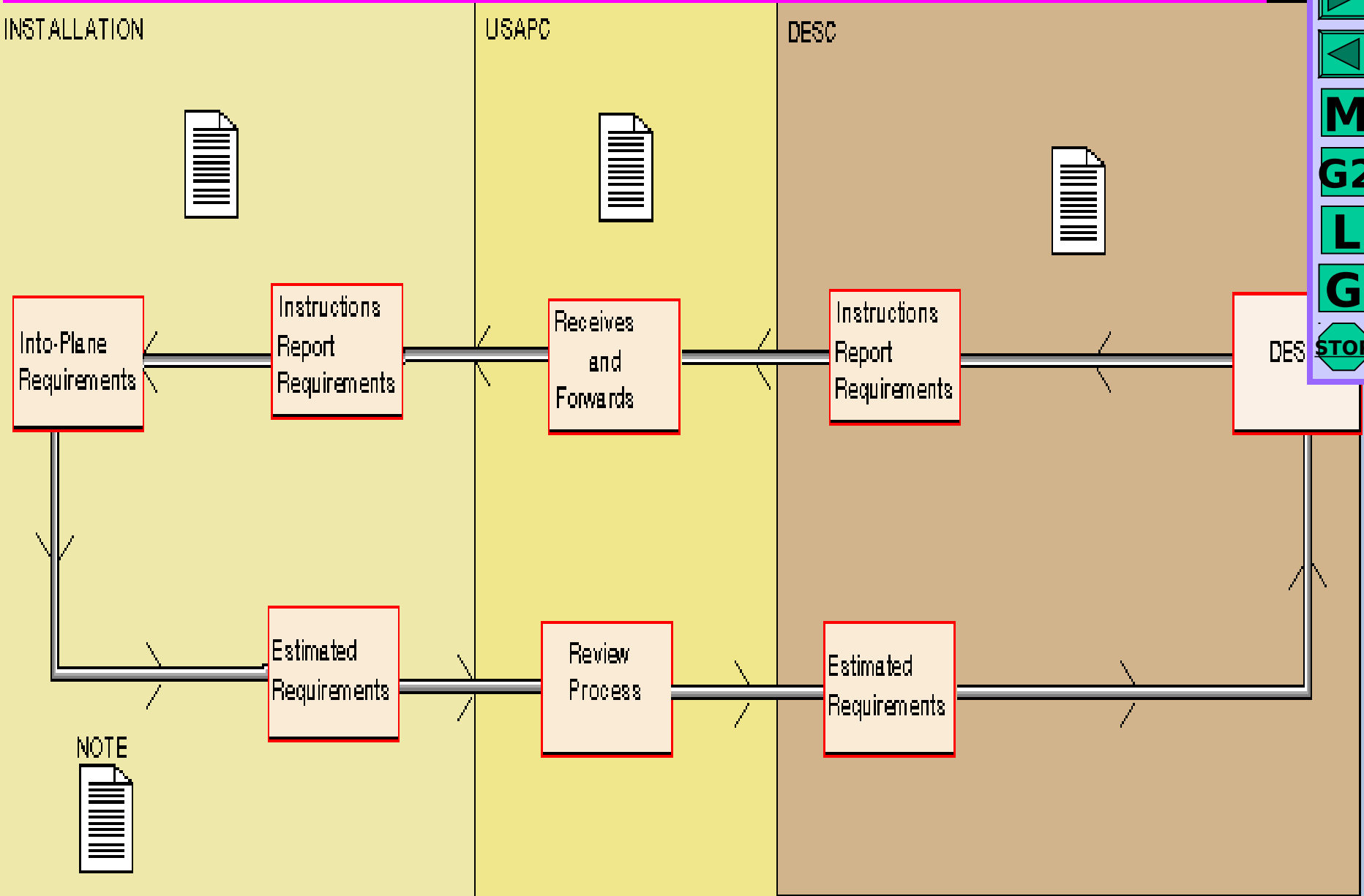


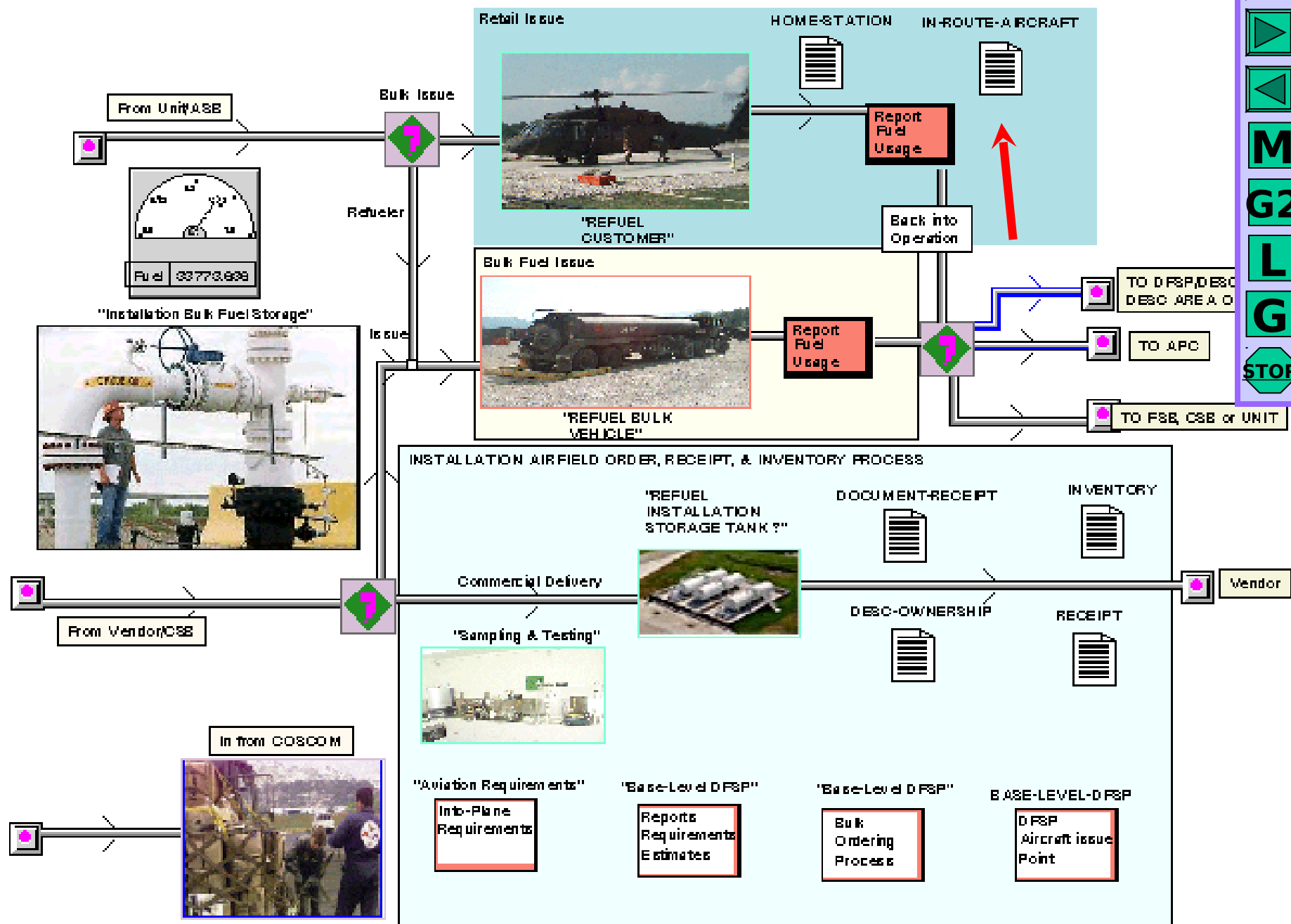






# Aviation Requirements







## Army & Interservice Aircraft (Air Force, Navy, Marines & Govt. Agencies)



Record issue on DD Form 1898 (AVFUELS into-Plane Contract Sales Slip)

Record data from AVFUEL Identaplate onto DD Form 1898 (Customer ID#, Supplemental Address, Fund Code, Aircraft Type, Tail Number, DODAAC, etc.)

Record fuel product and quantity issued

Obtain Pilot's Name, Grade, Organization, and Signature

### DISPOSITION OF DD FORM 1898

Send copy #1 to Servicing Finance Accounting Office for billing

Keep copy #2 for Accounting Records

Provide Pilot with copies 3&4. (Copy #4 routes to Pilot's FAO)



Retail

jump  
pause d"WEDNESDAY, 27 Jun 2001 3:38:13  
a.m."

BULK REQUEST

Wholesale

Industry

Customer

DD 1155

Refueler

Customer

MSB, Refueler

Customer

MBPAS  
REPORT

Customer

UNIT

FSB

MSB

DISCOM

COSCOM

INSTALLATION  
DOL

DD 1155 copy

APC

DESC

DESC  
AREA  
OFFICE

VENDOR

Unit Refueler

Non-Divisional Customer

Customer

Refueler

CSB

Back in Operation

Refueler

Customer

Gas \$/b per Gall

1.0 ▽ 2.0  
1.2

Gas \$/b per Gall for the VENDOR

1.0 ▽ 4.0  
1.32



## USAPC Mission

USAPC has the mission to provide petroleum support to the Army by ensuring that adequate quantities of high quality bulk and packaged products and coal are supplied to Army installations and units when and where required; that assistance is rendered as necessary for proper functioning and readiness of tactical and non-tactical petroleum units and equipment; and that testing of petroleum products and coal is performed accurately and efficiently.

USAPC has unique technical capabilities within the Army which give it the capacity to provide assistance at all levels of petroleum operations in both tactical and base support organizations. It also serves as the interface between the DOD wholesale manager, DLA, and Army organizations.



# APC Detail



APC-MISSION

Process Installation Requirement Submissions/Modifications

## REQUIREMENTS



Army Fuel  
Requirements

Process Budget

## BUDGET



Budget  
Submissions

Fuel Laboratory

## APC



Sample  
and  
Testing



# Bu



## Budget Submissions

APC prepares budget submissions for the Army for DESC funded Bulk Fuel, Into-Plane, and PC&S contract bulletin items.

APC updates the budget data as requested by DESC based on requirements submissions sent in by Installations/Activities and forwards reviewed spreadsheets containing budget data to DESC.

Updates occur by regional area and times of year as listed in DESC I 4220.1

Not all submissions are annual. Bulk Fuels are annual contracts, Into-Plane are 2 yr contracts, & PC&S are 3 yr contracts.

If significant changes occur in the interim period updates are made and forwarded to DESC

DESC requests budget input from APC & provides APC spreadsheets with data requiring update

Data in spreadsheets is essentially the same as data in DD Form 2082, referenced in DOD 4140.25M for budget submissions

Projected requirements are used in preparing DESC budget estimates and operating budgets

# S



# APC Detail



APC-MISSION

Process Installation Requirement Submissions/Modifications

REQUIREMENTS



Army Fuel  
Requirements

Process Budget

BUDGET



Budget  
Submissions

Fuel Laboratory

APC



Sample  
and  
Testing







Retail



jump  
pause d  
"WEDNESDAY, 27 Jun 2001 3:38:13  
a.m."

BULK REQUEST

Wholesale

Industry

Customer

DD 1155

Customer

MSB, Refueler

Refueler

MBPAS  
REPORT

Customer

INSTALLATION  
DOL

DD 1155 copy

UNIT

FSB

MSB

DISCOM

COSCOM

APC

DESC

VENDOR

Unit Refueler

Non-Divisional Customer

CSB

DFSP

DESC  
AREA  
OFFICE

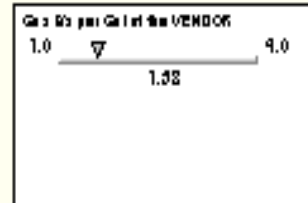
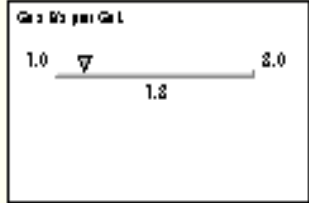
Customer

Refueler

Refueler

Customer

Back in Operation





# DESC Bulk Fuel Requirements and Distribution Authority



"DD FORM 1155"

"PC&S Support"

DESC

More Detail

"Base-Level DFSP  
Support"

DESC

More Detail

Fuel is pushed to intermediate  
DESPs to maintain their stockage  
levels.

"COPY OF  
DD FORM 1155  
(PURCHASE CONTRACT)"





Retail

jump  
pause d"WEDNESDAY, 27 Jun 2001 3:38:13  
a.m."

BULK REQUEST

Customer

MSB, Refueler

Wholesale

Industry

DD 1155

Customer

Refueler

MBPAS  
REPORT

Customer

INSTALLATION  
DOL

DD 1155 copy

UNIT

FSB

MSB

DISCOM

COSCOM

Unit Refueler

Non-Divisional Customer

Customer

Refueler

Back in Operation

Refueler

Customer

VENDOR

Gas \$/b per Gall

1.0

1.2

2.0

Gas \$/b per Gall for the VENDOR

1.0

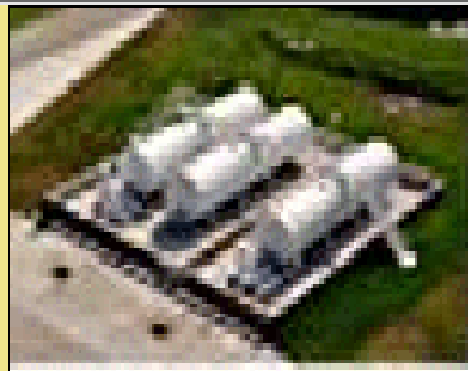
1.25

4.0



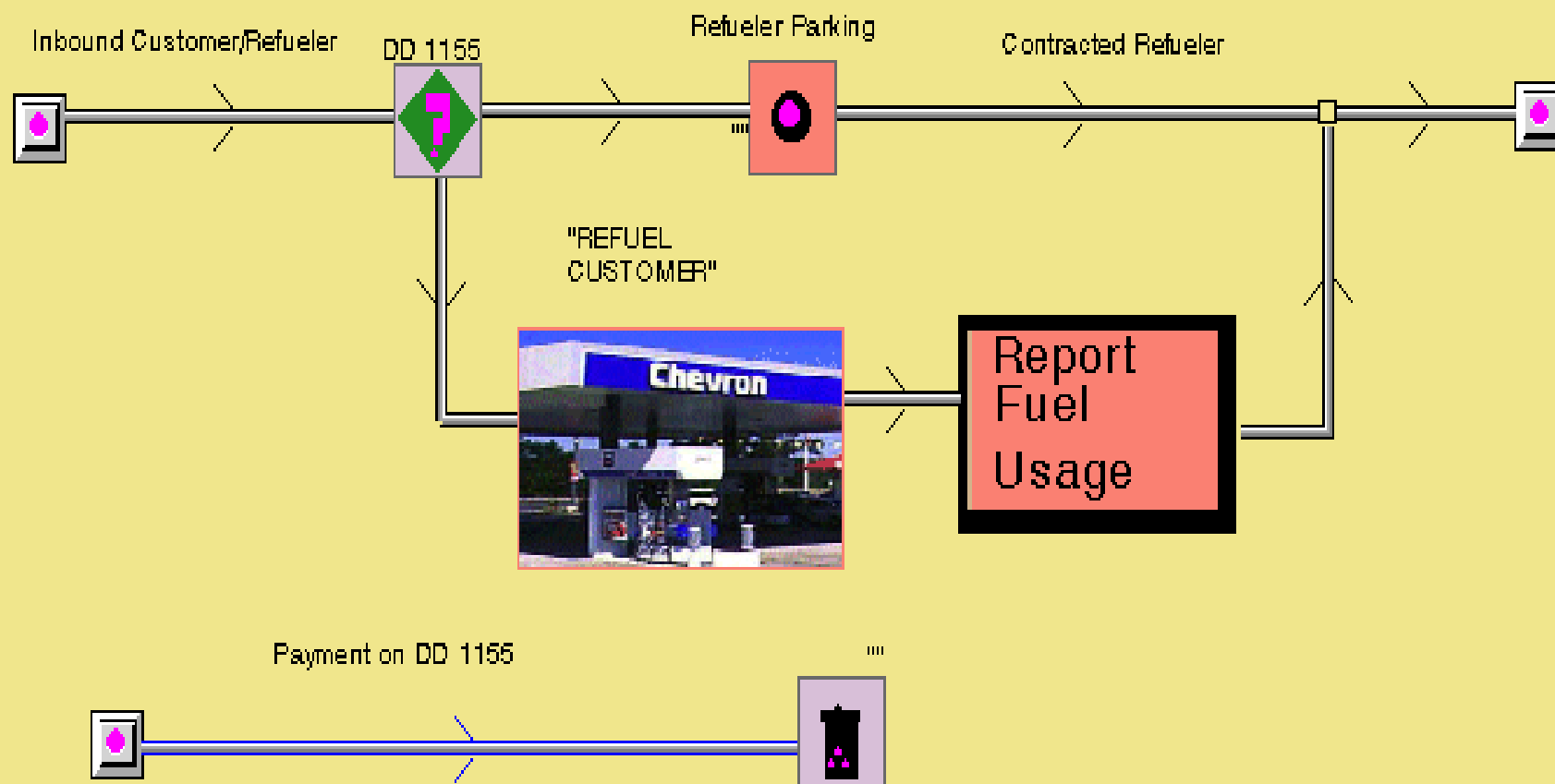
# Vendor Detail

COMMERCIAL-SUPPORT



VENDOR-FUEL

Fuel	78153.573
------	-----------





Retail

jump  
pause d"WEDNESDAY, 27 Jun 2001 3:38:13  
a.m."

BULK REQUEST

Customer

MSB, Refueler

Wholesale

Industry

DD 1155

Customer

MBPAS  
REPORT

Customer

UNIT

FSB

MSB

DISCOM

COSCOM

INSTALLATION  
DOL

Refueler

DD 1155 copy

APC

DESC

DESC  
AREA  
OFFICE

VENDOR

Unit Refueler

Non-Divisional Customer

Customer

Refueler

CSB

Back in Operation

Refueler

Customer

Gas \$/Gallon

1.0 1.2 2.0

Gas \$/Gallon of the VENDOR

1.0 1.25 4.0

## **LIA Information**

**Questions or Comments**

**LOIA\_BP\_CD@hqda.army.mil**

**FAX 977-5024**

**Commercial 717-770-5024**



### **SOURCES:**

**AR 710-2**

**DODD 4140-25**

**710-2-2**

**DODD 4140-25M**

**67-1**

**DESC 4220.1**

**FM 10 - 426**

**APC**

**DESC PUB on PC&S**

**DIA/ DESC**

**DA PAM 710-2-1**

**DA PAM**

**FM 10-**

**FM 10-67-2**

**DIV/CORPS**

**MACOMS**



# Army Logistics Process Class III (B)



- Introduction
  - Purpose
  - Model Interpretation
- Detailed Logistics Walk Through
  - Retail
  - Wholesale
  - Financial Impacts



# Model Premises

- What we did was to look at the “As Is” process for the supply of bulk petroleum in a peacetime CONUS garrison environment. As a basis for laying down this process, current Army Regulations, DA Pamphlets, and DoD Directives and Manuals were researched. It was found that this is an area of rapid evolution, with a number of implemented improvements, such as the VOYAGER/Fleet Card, and automation initiatives such as Fuels Accounting System (FAS) not yet addressed in references. These ongoing changes were incorporated based upon discussions with functional experts in the field. Activities contacted and who contributed to the development of this process lay down included DA ODCSLOG, CASCOM, QM School, USAPC, 49<sup>th</sup> OM Group, DESC, and Installation, Divisional, or Corps POCs at Forts Stewart, Bragg, and Hood.





# Model Characteristics

## OBJECTIVE:

- To capture the U.S. Army's end-to-end Class III logistics process in a visualization model. To measure the consumption and operational constraints on the delivery of fuel based on available resources, unit size, distance, and days in operation.

## APPROACH:

- Develop the Class III Model to reference the real world aspects of the U.S. Army's petroleum process and clearly demonstrate the usage and the accountability of fuel.

## CAPABILITIES:

- Variables within the model such as organizational size, number of organizations, distance, support organizations, refueling equipment, constraints on delivery time, consumption factors and other values can all be adjusted to obtain output data. Output data from the model based on run time can be collected on Excel Spreadsheets to exhibit multiple data elements in a variety of fields, for example:

- 1.Beginning Inventory
- 2.Fuel on hand
- 3.Fuel received
- 4.Fuel issued
- 5.Cost of fuel both issued and received
- 6.Ending Inventory



## Class III Process Explanation

We used the G2/ReThink simulation language to develop our model. To understand the model, you will need to be familiar with some of the G2/ReThink conventions, such as process blocks and paths used in laying out the model. This chart highlights these conventions:

- The **Process Block** here is used to initiate an action.
- The second block is a **Task Block**. It is **Salmon** colored to indicate underlying detail.
- Decision Points** provide for branches in the process.
- Work Objects** flow between processes in the model.
- Pools** are collecting points for information (storage of records associated with completed steps in processes) or other things such as equipment.
- The last block is a **Connector**, used to show linkage within the dynamic, interactive model.



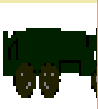
Class III Legend  
Description of Working Objects Produced by The Model.

DA 3644

DA Form 3644,  
Monthly Abstract of  
Issues.  
Used to compile all

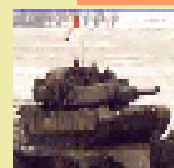


Monetary obligation.  
Generated to fulfill  
financial obligations.



The Legend provides a description of the Working Objects which appear throughout the model. There is underlying information associated with the objects, such as the fuel consumption rates for vehicles, or the bulk fuel capacity for fuel Tankers. Different colored paths are used to depict vehicular and information flows between levels. The Salmon colored blocks can contain several layers to show meticulous detail about a process. There are also icons which represent underlying text which provide additional detail about a process.

We will now proceed to a detailed walk-through of the model.



Tracked Vehicle  
Representation.

DA 3643

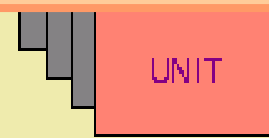
DA Form 3643  
Daily Issue Register.  
Records all issues  
into a consumable unit.

Bulk Fuel  
Request

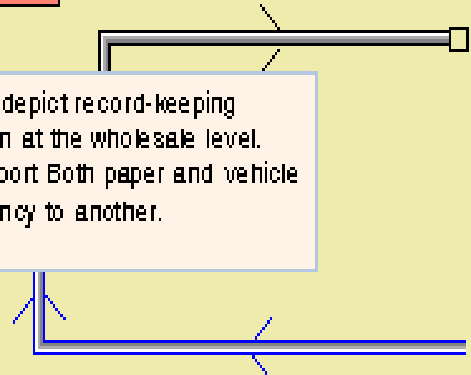
DA Form 2785-1,  
DD Form 1348, etc.  
Bulk Fuel Request  
Submitted to replenish  
fuel requirements.

DD 1155

DD Form 1155  
Used to contract  
for bulk fuel requirements  
from commercial sources.



Blue colored paths depict record-keeping  
and fiscal interaction at the wholesale level.  
Gray paths will support Both paper and vehicle  
travel from one agency to another.





# Glossary of Acronyms

<b>ADP LISTING</b>	<b>Automated Data Processing Listing</b>	<b>DISCOM</b>	<b>Division Support Command</b>
<b>APC</b>	<b>Army Petroleum Center</b>	<b>DMMC</b>	<b>Division Materiel Management Center</b>
<b>API</b>	<b>American Petroleum Institute</b>	<b>DP</b>	<b>Distribution Plan</b>
<b>ASB</b>	<b>Aviation Support Battalion</b>	<b>DPA</b>	<b>Distribution Plan Authorization</b>
<b>AVGAS</b>	<b>Aviation Gas</b>	<b>DRMO</b>	<b>Defense Reutilization Marketing Office</b>
<b>CIS</b>	<b>Contract Information System</b>	<b>DSU</b>	<b>Direct Support Unit</b>
<b>CLIN</b>	<b>Contract Line Item Number</b>	<b>FOB</b>	<b>Free On Board</b>
<b>CSB</b>	<b>Corps Support Battalion</b>	<b>FSB</b>	<b>Forward Support Battalion</b>
<b>DOD 4140.25M</b>	<b>Management of Bulk Petroleum Products</b>	<b>IAW</b>	<b>In Accordance With</b>
<b>DADS</b>	<b>DFAMS Asynchronous Dial-up System</b>	<b>J P8</b>	<b>Name of multiple equipment Fuel Blend</b>
<b>DCMC</b>	<b>Defense Contract Management Command</b>	<b>MBPAS</b>	<b>Monthly Bulk Petroleum Accounting Summary</b>
<b>DESC</b>	<b>Defense Energy Support Center</b>	<b>MIPR</b>	<b>Military Interdepartmental Purchase Request</b>
<b>DESCI 4220.1</b>	<b>Requirements Submission Schedule for Energy Commodities &amp; Related Services</b>	<b>MMC</b>	<b>Material Management Center</b>
<b>DFAMS</b>	<b>Defense Fuels Automated Management Systems</b>	<b>MSB</b>	<b>Main Support Battalion</b>
<b>DFSP</b>	<b>Defense Fuel Support Point</b>	<b>PC&amp;S</b>	<b>Post, Camp and Station Program</b>
<b>DIC</b>	<b>Document Identifier Codes</b>	<b>PORTS</b>	<b>Paperless Ordering &amp; Receipt Transaction Screens</b>
<b>P20</b>	<b>Contractor Shipment</b>	<b>RCS</b>	<b>Report(s) Control System</b>
<b>P21</b>	<b>Shipment to a Service or Agency</b>	<b>SIOATH</b>	<b>Source Identification Ordering Authority</b>
<b>P22</b>	<b>Shipment to a DFSP from a DFSP</b>	<b>TDA LABORATORIES</b>	<b>Table of Distribution &amp; Allowances</b>
<b>P2B</b>	<b>Defuel</b>	<b>TO&amp;E</b>	<b>Table of Organization &amp; Equipment</b>
<b>P30</b>	<b>Receipt from Contractor</b>	<b>USAPC</b>	<b>U. S. Army Petroleum Center</b>
<b>P32</b>	<b>Receipt by a DFSP from a DFSP</b>		
<b>P41</b>	<b>Physical Inventory</b>		
<b>P42</b>	<b>Inventory Adjustments</b>		
<b>P43</b>	<b>Condition/Identity Change</b>		



Retail



jump  
paused  
"WEDNESDAY, 27 Jun 2001 3:38:13  
a.m."

BULK REQUEST

Customer

Wholesale

Industry

DD 1155

Customer

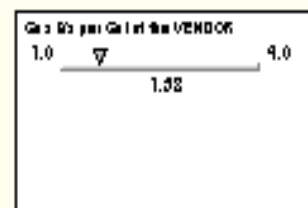
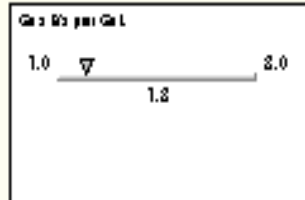
Customer

MSR Refueler

Shown here is a top level overview of the supply of bulk petroleum, as it applies from the unit level up to the supporting industry source within the Continental United States. Depicted in this overview are the various paths associated with the supply of fuel and the flow of related documentation. In the CONUS in garrison environment, there are a number of fuel sources that may be available to the soldier/operator indicated by the connecting pathways that you see. We will discuss the various options as we progress through the model. We will drill down in each of the salmon colored blocks and look at the functional detail associated with each level in the retail and wholesale supply of fuel to the user.

VENDOR

Back in Operation

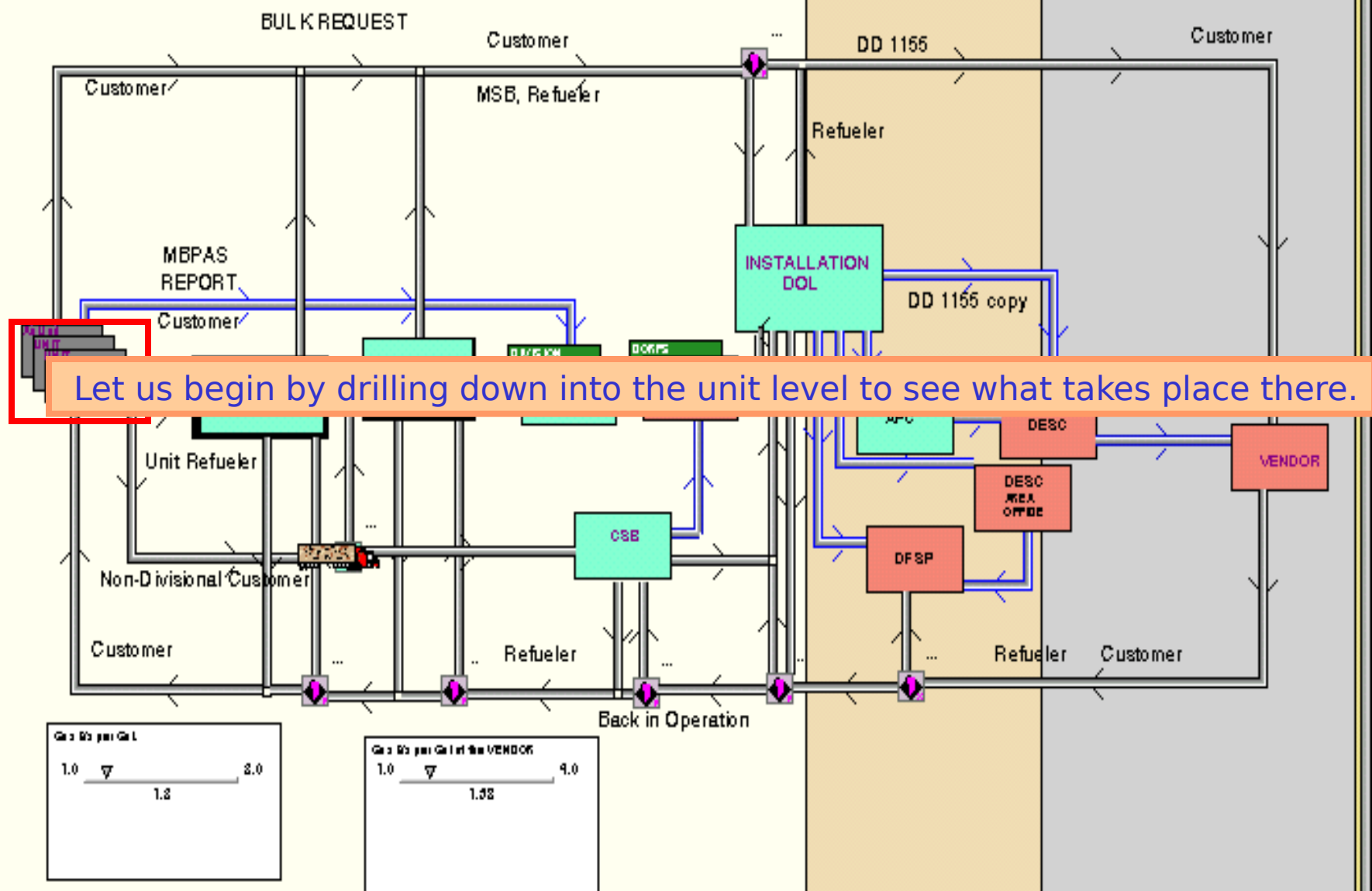




```

jump
pause d
"WEDNESDAY, 27 Jun 2001 5:38:13
am"

```





## Class III Unit Level

RESET

"Track Vehiclez"



"Wheeled Vehiclez"



Annotations

FLEET-CARD



NDPAS INVENTORY



ADJUSTMENTS



DERIVELS CONVOY



DA-FORM-2783-1



"Change Receipts"



"Archive"



"DA Form 2899"



MONTHLY

Status of Fuel



"Fuel"  
0.0

"FuelRequired?"

Refuel at Unit?

Operation  
Cycle

NEED

Determine

No

Set Direction

"Sampling and Testing"



We will begin by explaining what occurs at the unit level:

When an item of ground equipment belonging to a unit requires fuel, there are a number of fuel sources which may be available to the equipment operator. First, if the unit has its own refuel capability, the operator could obtain fuel from that source.

UNIT 2500 GALLON TANKERS

Number of Tankers  
in Convoy

1

1 16

Fuel of Convoy 2500

"Refuel Unit Tanker?"



"Create a 2783  
for tanker refuel"



Local Purchase

Vehicle Return





## Class III Unit Level

RESET

"Truck Vehiclez"

"Wheeled Vehiclez"

Annotations

FLEET CARD

MDPAS INVENTORY

ADJUSTMENTS

DERUELS CONVOY

DA FORM 2783-1

Status of Fuel

"Change Receipts"

"Archive"

"DA Form 2899"

MONTHLY

"Sampling and Testing"



Operation Cycle

"Fuel" 0.0

"FuelRequired?"

NEED GAS?

Yes

Refuel at Unit?

Determine Fuel Source

No

Set Direction

Let us drill down in the "Unit Refueler" block and look at issues within the u

Back into Operation

Ground Operations

Unit Refueler

DA FORM 2893

REFUEL UNIT TANKER

"Refueled tanker returns"

0

"Refuel Unit Tanker?"

"Create a 2783 for tanker refuel"

TO F55

TO C56/M56

TO Installation

Local Purchase

UNIT-TANKER-POOL



UNIT 2500 GALLON TANKERS

Number of Tankers in Convoy

1

1 16

Fuel of Convoy 2500

Vehicle Return





## Unit Level Refuel Detail



### REFUEL VEHICLE

Now Serving Number  
338

"Wait for Tanker  
Cycle"

Requirement Not Filled

No

The Issue would be made and recorded manually on a DA Form 3643, Daily Issue Sheet. The entry would include the vehicle identification number, product, quantity issued, unit, and operator signature.

Fuel	1057.344
------	----------

### REPORT USAGE

DA-FORM-3643

"Process  
DA Form 3643"

3643's"



Class III Unit Level

RESET

Annotations

FLEET CARD

MCPS INVENTORY

ADJUSTMENTS

DERJELS CONVOY DA-FORM-2783-1

Status of Fuel

"Truck Vehiclez"

"Wheeled Vehiclez"

Opera  
Cycle

Ground

Ground Oper

UNIT-TANKER-PO

UNIT 2500

Num  
in C

17

Vehicle Return

If fuel is not available at the unit, the operator could obtain fuel at the Fuel Point of the supporting Direct Support Unit (DSU). This could be at the Forward Support Battalion (FSB), Main Support Battalion (MSB), Corps Support Battalion (CSB), or an Installation retail fuel point. Note the Connector blocks at far right of work space leading to these sources. Again, the issue would be recorded manually on DA Form 3643.

An exception to recording the issue manually on a DA Form 3643 would be an Installation having an Automated Fuel Service Station. At these locations, the vehicle operator would use an electronic key to activate a fuel pump, and an electronic record of the issue would be recorded using the electronic identification data from the key. The electronic issue transaction is used in billing the customer unit for the fuel.



Class III Unit Level

RESET

"Truck Vehiclez"

"Wheeled Vehiclez"

Annotations

FLEET CARD

MOBAS INVENTORY

ADJUSTMENTS

DERJELS CONVOY

DA FORM 2783-1

Status of Fuel

Note the "Local Purchase" connector at the lower right of this workspace.

When traveling away from military/DoD installations, the vehicle operator may obtain fuel from commercial sources using a VOYAGER/Fleet card. The Fleet card is like a commercial credit card, with charges recorded and billed against a specific account.

The operator returns his copy of the commercial issue slip to his unit for use later in reconciling the bill.

In the operational model, equipment passes through an operations cycle to simulate consumption. When the item reaches its designated refuel point, a determination is made based on parameters built into the model as to where the item will be refueled.

Fuel of Convey 2500

Vehicle Return



Class III Unit Level

RESET

Annotations

Status of Fuel

If the unit has its own bulk refuel capability and requires a resupply of bulk fuel, the unit initiates a request document (DA Form 2765-1), assigns a document number to the request, posts it to the Document Register (DA Form 2064) and sends this document with its refueler to its supporting bulk fuel point. This issue point could be operated by the FSB, MSB, CSB, or Installation. A bulk issue is made, with the issue quantity recorded on the request document. At the unit, receipt of the fuel is annotated on the DA 3643. (Note that some installations have automated bulk issue facilities, where bulk issues are made using electronic keys as described for retail issues above).

When operating away from military installations on convoy operations/exercises, units may locally purchase bulk fuel up to 10,000 Gal per product. For larger requirements, advanced coordination is made through the Army Petroleum Center (APC) for the Defense Energy Support Center (DESC) to arrange contract support. Issue of the fuel to individual vehicles would then be recorded on a DA Form 3643. The Convoy Commander could also opt to sign a consolidated single line entry on the DA Form 3643 to document fuel issued to vehicles in the convoy.



Class III Unit Level

RESET

"Track Vehiclez"

"Wheeled Vehiclez"

Annotations

FLEET-CARD

WSPAS INVENTORY

ADJUSTMENTS

DERIVELS CONVOY

DA-FORM-2783-1

Status of Fuel

"Fuel"  
0.0

"FuelRequired?"

"Change Receipts"

"Archive"

"DA Form 2899"

MONTHLY

"Sampling and Testing"



## Inventory

Units having a bulk storage capability also have a daily and/or weekly, and monthly requirement to inventory the fuel on hand. Let us look at the inventory procedures.

Operation Cycle

Ground Vehicle

Deck into Ops

Ground Operations

UNIT-TANKER-POOL



UNIT 2500 GALLON TANKERS

Number of Tankers  
in Convoy

1

1 16

Fuel of Convoy 2500

"Refueled tanker returns"

0

"Refuel Unit Tanker?"

"Create a 2783  
for tanker refuel"

Vehicle Return


TO F55

TO C55/M55

TO Installation

Local Purchase



	Unit Inventory Procedures
Daily	Gage solid wall tanks having Issues/Receipts for fuel Record gaging data on DA Form 3853-1 (Issue, Gage Sheet) or local form

Inventory procedures are outlined here.

Issues and receipts from the DA Forms 3643 are totaled daily and the daily totals recorded on DA Form 3644 (Monthly Abstract of Petroleum Products).

On the last day of the month, all bulk fuel storage tanks are physically gauged, volumes equal to or greater than 3,500 gallons corrected to 60 degrees Fahrenheit, quantities reconciled, and a Monthly Bulk Petroleum Accounting Summary (MBPAS) is prepared on DA Form 4702-R. Allowable gains/losses are computed, and inventory adjustment actions are taken as indicated in the detail shown in the "Inventory Adjustments" text block.

for all other petroleum products



## Inventory Adjustments

Take Inventory Adjustment Actions

If actual loss > allowable loss and > \$500

initiate Report of Survey for total loss.

Appropriate inventory adjustment actions are taken as shown here. The results of the Inventory and adjustment actions are recorded on the MBPAS and forwarded to the next higher commander in the chain for approval.

If gain exceeds allowable gain, initiate  
Causative Research.

Forward MBPAS for approval within 3 days of end of  
Month.



Class III Unit Level

RESET

Annotations

FLEET CARD

NDPAS INVENTORY

ADJUSTMENTS

DERIVELS CONVOY

DA-FORM-2783-1

Status of Fuel

"Truck Vehiclez"

"Wheeled Vehiclez"

"Change Receipts"

"Archive"

"DA Form 2899"

MONTHLY

"Sampling and Testing"

"Fuel"  
0.0

"FuelRequired?"

Refuel at Unit?

Operation  
Cycle

NEED  
GAS?

Determine  
Fuel Source

Set Direction

## Sampling and Testing

The unit also performs sampling and testing of bulk fuel and testing of filter separators on their fuel handling equipment.

We will now look at these procedures in more detail.

UNIT 2500 GALLON TANKERS

Number of Tankers  
in Convoy

1

1 16

Fuel of Convoy 2500

"Refuel Unit Tanker?"

"Create a 2783  
for tanker refuel"

Local Purchase

Vehicle Return



"On-Site Testing"



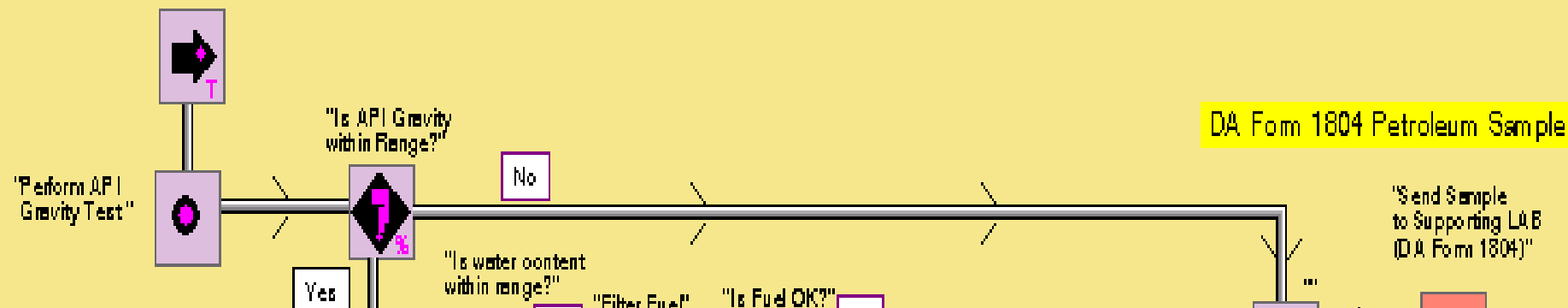
"Filter Separator Testing"



We will first look at sampling and testing of bulk fuel.

Fuel Released for Issue





## Sampling and Testing of Fuel

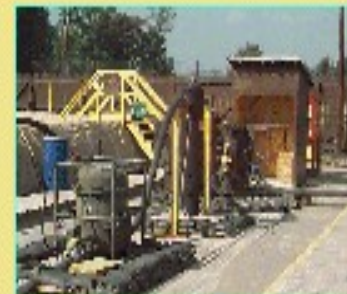
Here we see the sampling and testing procedures for units with their own bulk refuel capability.

Fuel is tested for API gravity, for water, and for contaminants by performing the API Gravity, Aqua-Glo, and Visual/Membrane color tests. Samples for fuel failing local testing will be drawn, tagged, and sent to a supporting Petroleum Laboratory for further analysis and disposition determination.

"On-Site Testing"



"Filter Separator Testing"



### Testing of Filter Separators

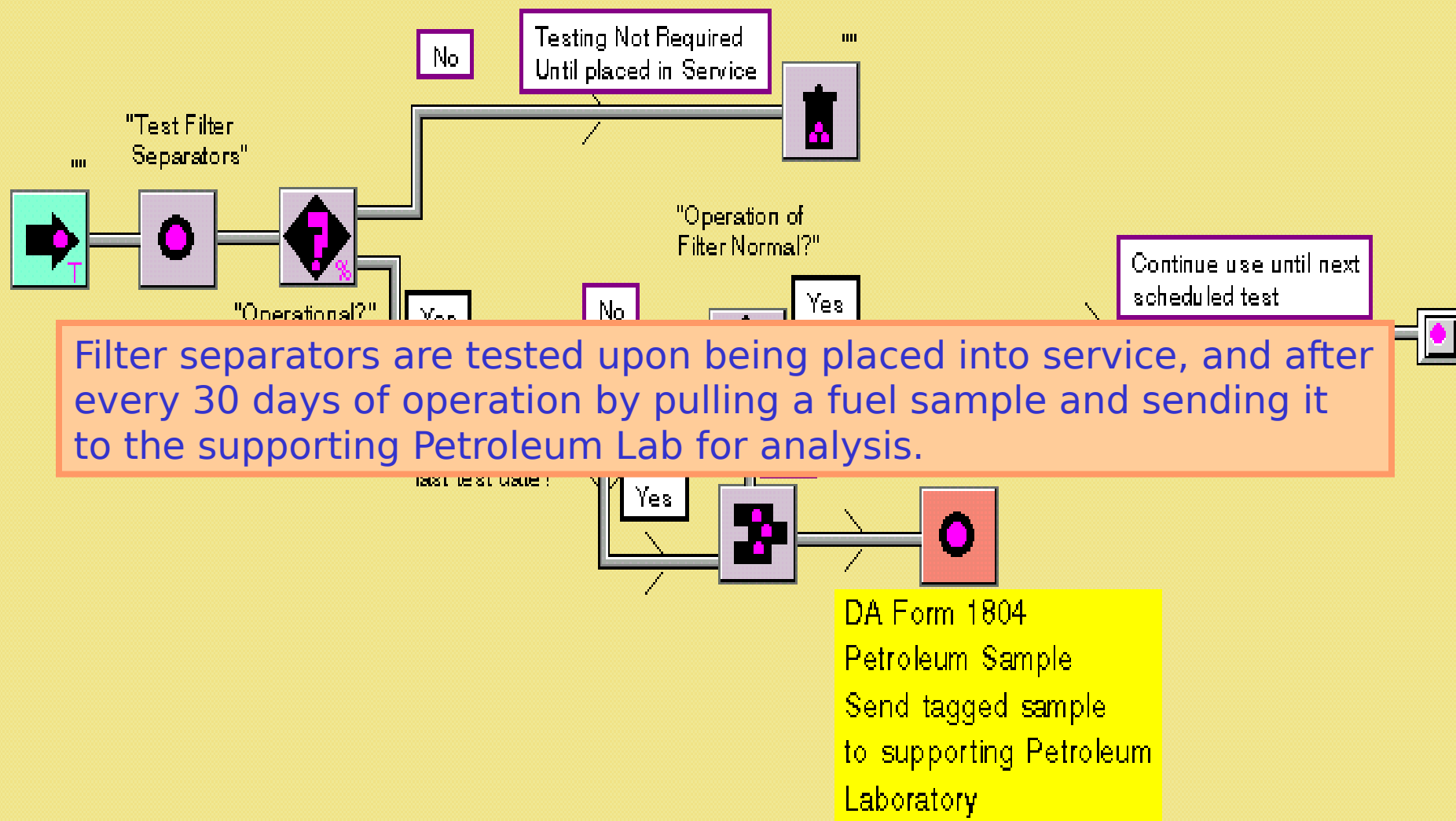
Filter separators on fuel service units and equipment also require testing.

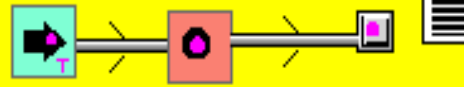
We will now look at those procedures.





## Filter Separator Testing





## Aviation – Unit Level

In addition to the procedures outlined for ground units, there are some additional procedures that apply only to Aviation.

For units with their own refueling capability, the Aqua-Glo test must be performed on fuel before starting daily Aircraft refueling operations.

If the unit has its own refuel capability, the issue of fuel is recorded on the DA Form 3643 (Daily Issue Sheet), to include tail number of the aircraft, with the pilot signing the entry.

Aviation units, like ground units, may obtain fuel from a number of sources, and different procedures are used depending on where the fuel is obtained.

We will now look at the procedures used in obtaining fuel from other sources.



"AIRCRAFT OPERATIONS"

## AVFUEL Identaplate

For each Army aircraft an AVFUEL Identaplate is issued by the US Army Petroleum Center. (DD Form 1896 for Jet Fuel, or DD Form 1897 for AVGAS). The Identaplate includes information required for accounting and billing, to include a distinct plate number, Aircraft type and tail number, account Process Code (APC), Fund Code, Signal Code, Unit DODAAC, Billing DODAAC.

To obtain fuel from a DOD/Military installation, the pilot presents the AVFUEL Identaplate. The issuing activity records issue using a DD Form 1898) Into-Plane Contract Sales Slip. The pilot signs the completed 1898 and returns a copy to his unit.

When operating away from home station, the pilot may also obtain fuel from commercial sources. The Defense Energy Support Center (DESC) establishes Into-Plane Contracts with air refuel facilities frequently used by DOD aircraft. These facilities should be used if available.

We will now look at how that is done.



"AIRCRAFT OPERATIONS"



'Fuel'  
200.0

'NEED REFUEL?'

Operation  
Cycle  
Aviation

No

Yes

Yes

Military Installation  
Available?

Back into Operation

Set Direction

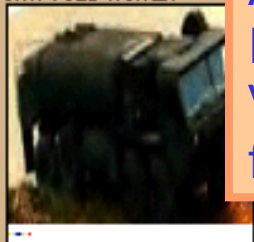


"AVFUEL Identplate"

TO ASB,MSB,FSB

Aviation Units may establish accounts through the Army Petroleum Center for AIR Cards. These are similar to the VOYAGER/Fleet cards described for ground equipment and function like a commercial credit card.

UNIT FUEL TANKER



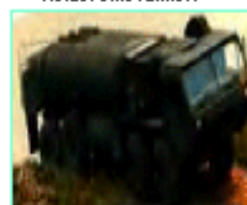
'Sampling and Testing'



AIRCRAFT-TANKER-POOL

Available Refuel Vehicles: 3

'Refuel Unit Tanker?'



'Create a 2783  
for tanker refuel'



'Charge  
Receipts'



AIR-CARD



"AVFUEL"



AVFUEL



"Air-Card w/o Contract"



NO-CONTRACT

Incoming Transportation





## Use of the Air Card

If the commercial facility is equipped to use the AIR Card, the pilot presents the AIR Card, the fuel is issued, and the pilot signs a commercial credit card slip. The issue is electronically recorded by the contractor and passed to DESC for reimbursement. The pilot returns a copy of the sales slip to his unit.

If the commercial facility is under a Into-Plane Contract, the unit will be billed at the DESC established rate in the contract.

If there is no Into Plane Contract with the activity, the unit will be billed through DESC at the commercial rate.

If the Into-Plane contractor is not equipped to use the AIR Card, the pilot presents the AVFUEL Identaplate. The fuel issue is documented on a DD Form 1898 (Commercial Sales Slip), with the contractor forwarding a copy of the form to DESC for reimbursement, and the pilot returning a copy of the form to his unit.





Retail



jump  
paused  
"WEDNESDAY, 27 Jun 2001 3:38:13  
a.m."

BULK REQUEST

Customer

MSB, Refueler

Wholesale

Industry

DD 1155

Customer

Refueler

MBPAS  
REPORTINSTALLATION  
DOL

DD 1155 copy

Now we will drill down and look at the detail at the Forward Support Battalion (FSB), the tactical DSU supporting divisional units at the Brigade level.

Unit Refueler

Non-Divisional Customer

Customer

Refueler

CSB

Back in Operation

DFSP

Refueler

Customer

DESC  
AREA  
OFFICE

VENDOR

Gas \$/Gallon

1.0 1.2 2.0

Gas \$/Gallon for the VENDOR

1.0 1.2 4.0



"Sample and Testing"



FSB-TANKER-POOL



Retail Support

NUMBER in Convoy 3

1  11

Fuel of Convoy 130.00

REFUEL CUSTOMER (RETAIL ISSUE)

Fuel  
Pump

Report  
Fuel  
Usage

Back into Operation

Installation

VENDOR

TO MSR

Both Bulk and Retail issues to supported units and equipment are made at this level. The FSB provides Retail and Bulk fuel support for units assigned to the Brigade or operating within the Brigade area.

Issue  
Point

Fuel  
Usage

Refueler to Unit

BULK FUEL REQUEST

REQUEST AND RECEIPT OF BULK FUEL

REQUEST

RECEIPT

INVENTORY

FUEL DELIVERY

Inbound Refueler



MBPAS



DEFUELS



ADJUSTMENTS



"Sample and Testing"



FSB-TANKER-POOL



Retail Support

NUMBER in Convoy 3

1 11

Fuel of Convoy 130.00

REFUEL CUSTOMER (RETAIL ISSUE)

Installation

VENDOR

## Refuel Customer (Retail Issue)

For Retail issues, the procedure is the same as described for issue from refuelers at the Unit level. As at the Unit, issues are recorded on a DA Form 3643, Daily Issue Sheet to include the data elements previously described. The daily issues are totaled and recorded on DA Form 3644 (Monthly Abstract of Petroleum Products).

TO MSE

TO UNIT

REQUEST AND RECEIPT OF BULK FUEL

REQUEST

RECEIPT

INVENTORY

FUEL DELIVERY



MBPAS



DEFUELS



ADJUSTMENTS

Inbound Refueler



## Refuel Tanker (Bulk Issue)

Bulk issues are made against the supported unit's request document. Processing the bulk request entails checking the document for completeness, and checking signatures against signature cards on file. The quantity of the issue is recorded on the document and also posted to the Stock Record Account, DA Form 1296 (Stock Accounting Card).

Issue data recorded on the Daily Issue Sheet (DA Form 3643) and on the Request Document for bulk issues (DA Form 2765-1, etc.) provide required information for later debiting of customer accounts and crediting of the account of the DSU.

Prior to daily refuel operations, fuel is sampled and tested as described at unit level. Fuel filters in filter separators are also tested as required.

For replenishment of bulk petroleum, if manual procedures are in use, a request document is prepared, a voucher number is assigned to the request from the Voucher Register (DA Form 272), and the request document accompanies the bulk fuel vehicle to the designated source of



## Receipt of Bulk Fuel

Let us now look at more detail on receipt procedures.

The issue quantity is entered on the request document and is signed for as a receipt by the vehicle operator. All quantities equal to or greater than 3,500 gallons are volume corrected to 60 degrees Fahrenheit.

If an automated bulk issue facility is used, an electronic key is used in place of the request document to draw and record the issue of fuel.

Receipts of bulk fuel are posted to the Stock Record Account (DA Form 1296). Receipts of fuel from Defuels/ turn-ins are recorded on DA Form 3643.

Adjust balance



"Sample and Testing"



FSB-TANKER-POOL



Retail Support

NUMBER in Convoy 3

1 11

Fuel of Convoy 130.00

REFUEL CUSTOMER (RETAIL ISSUE)

Fuel  
PumpReport  
Fuel  
Usage

Back into Operation

Installation

VENDOR

As at the Unit Level, daily and/or weekly, and monthly inventories of bulk fuel are performed, gains/losses are computed, and appropriate adjustment actions taken. A MBPAS is also prepared and forwarded for approval.

BULK FUEL REQUEST

REQUEST AND RECEIPT OF BULK FUEL

REQUEST

RECEIPT

INVENTORY

FUEL DELIVERY



MBPAS



DEFUELS



ADJUSTMENTS

Inbound Refueler



Retail



jump  
paused  
"WEDNESDAY, 27 Jun 2001 5:38:15  
a.m."

BULK REQUEST

Customer

Wholesale

Industry

Customer

DD 1155

MSB, Refueler

Refueler

MBPAS  
REPORTINSTALLATION  
DOL

We will now drill down and look at the detail at the Main Support Battalion (MSB).

Unit Refueler

Non-Divisional Customer

Customer

Refueler

Back in Operation

CSB

APC

DESC

DESC  
AREA  
OFFICE

DFSP

VENDOR

Refueler

Customer

Gas \$/b per Gall

1.0 ▽ 2.0  
1.5

Gas \$/b per Gall for the VENDOR

1.0 ▽ 4.0  
1.55



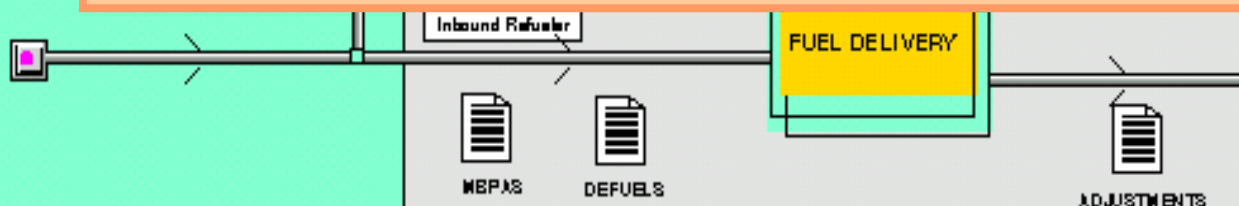
refueling-mode "TANKER"



As at the Forward Support Battalion, both Bulk and Retail issues are made to supported units and equipment at this level. The Main Support Battalion provides Retail and Bulk support to divisional units within its area as well as providing Bulk support to the Forward Support Battalions (FSBs) as well as to the Aviation Support Battalion.

The procedures described for the receipt, issue, inventory, and management of bulk petroleum at the Forward Support Battalion level also apply equally to the Main Support Battalion.

We will now look at the Aviation Support Battalion.





## Aviation Support Battalion

As at the Forward and Main Support Battalion, both bulk and retail issues are made to supported units/Aircraft.

The procedures described for the receipt, issue, inventory, and management of bulk fuel at the Forward and Main support Battalions apply equally to the Aviation Support Battalion.

The DD Form 1898 is used in documenting issues to aircraft not organic to the division.



Retail



jump  
paused  
"WEDNESDAY, 27 Jun 2001 5:38:15  
a.m."

BULK REQUEST

Wholesale

Industry

Customer

DD 1155

Customer

MSB, Refueler

Refueler

MBPAS  
REPORT

Customer

INSTALLATION  
DOL

DD 1155 copy

Now we are going to look at the detail at the Division/DISCOM level

Unit Refueler

Non-Divisional Customer

Customer

Refueler

Back in Operation

CSB

APC

DESC

DESC  
AREA  
OFFICE

DFSP

VENDOR

Refueler

Customer

Gas \$/b per Gall

1.0 ▽ 2.0  
1.5

Gas \$/b per Gall for the VENDOR

1.0 ▽ 4.0  
1.55



Division, DISCOM



"MBPAS"

Receives MBPAS from  
Division Units

Mo  
Co

At Division level, the Division Materiel Management Center provides technical assistance to divisional units in performing petroleum management functions, prepares consolidated reports, and coordinates with Division/Installation resource management on financial aspects.

MBPASs from Divisional units are forwarded to the Division Materiel Management Center. The DMMC reviews and consolidates subordinate MBPASs and produces a consolidated Division MBPAS.

In conjunction with preparing the consolidated MBPAS, the MMC also prepares a consolidated listing of issues by product, quantity, and unit for use in reconciliation with the bulk supply source (Installation) and to support billing/cost transfer actions.



Retail



jump  
paused  
"WEDNESDAY, 27 Jun 2001 3:38:13  
a.m."

BULK REQUEST

Wholesale

Industry

Customer

DD 1155

Refueler

MBPAS  
REPORT

Customer

INSTALLATION  
DOL

DD 1155 copy

UNIT

ESB

MSB

DISCOM

DISCOM

COSCOM

Within the COSCOM, bulk petroleum support is provided by units of the Corps Support Battalions.

ENDOR

Non-Divisional Customer

Customer

Refueler

Back in Operation

Refueler

Customer

Gas \$/b per Gall

1.0 ▽ 2.0  
1.5

Gas \$/b per Gall for the VENDOR

1.0 ▽ 4.0  
1.55

DFSP

OFFICE



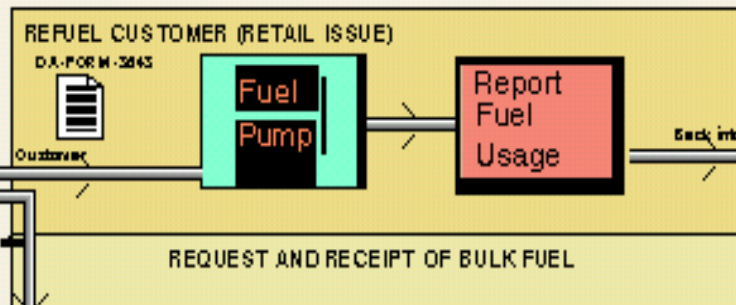
refueling node "TANKER "

OSB Retail Support

Number of Tankers

1

TANKER Fuel of Convoy 10000



QM Supply Companies (DS) assigned to Corps Support Battalions provide retail and bulk fuel support to non-divisional units in the same manner as the Forward Support Battalion and Main Support Battalion do within the division, and follow the same procedures as previously outlined.

Storage Tank

Inbound Refueler

'Sample and Testing'



INVENTORY



MEPAS



DEPUELS



ADJUSTMENTS



REPLENISHMENT



Retail



jump  
paused  
"WEDNESDAY, 27 Jun 2001 5:38:15  
a.m."

BULK REQUEST

Wholesale

Industry

Customer

DD 1155

Customer

MSB, Refueler

Refueler

MBPAS  
REPORT

Customer

INSTALLATION  
DOL

DD 1155 copy

The Corps and the Corps Support Command (COSCOM) do not have a role in providing routine bulk petroleum support in CONUS distinct from that which is performed by the Division/DISCOM or Installation.

VENDOR

Non-Divisional Customer

Customer

Refueler

DFSP

Refueler

Customer

Back in Operation

Gas \$/b per Gall

1.0 ▽ 2.0  
1.5

Gas \$/b per Gall for the VENDOR

1.0 ▽ 4.0  
1.55



Retail



jump  
paused  
"WEDNESDAY, 27 Jun 2001 5:38:15  
a.m."

BULK REQUEST

Wholesale

Industry

Customer

DD 1155

Customer

MSB, Refueler

Refueler

MBPAS  
REPORT

Customer

INSTALLATION  
DOL

DD 1155 copy

We will therefore proceed to look at the Installation level detail.

Unit Refueler

Non-Divisional Customer

Customer

Refueler

Back in Operation

Gas \$/5 per Gall

1.0 ▽ 2.0  
1.5

Gas \$/5 per Gall for the VENDOR

1.0 ▽ 4.0  
1.55

APC

DESC

DESC  
AREA  
OFFICE

DFSP

VENDOR

Refueler

Customer



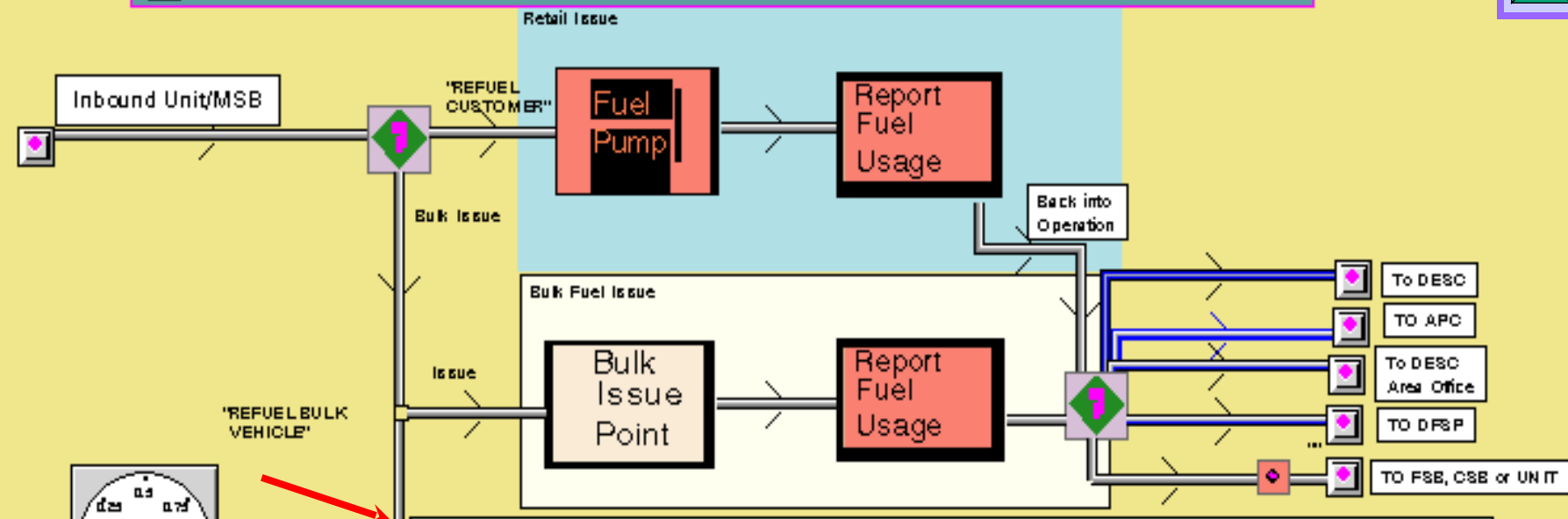
In CONUS, the Installation provides retail and bulk issue petroleum support for all units and activities within its area of responsibility. It acts as a General Support (GS) source of supply for Direct Support (DS) units (the FSB, ASB, MSB, or CSB) with a petroleum supply mission. In a garrison environment, depicted in this model, most vehicles will routinely obtain their fuel from Installation fuel points as opposed to using unit, Forward Support Battalion, Main Support Battalion, or Corps Support Battalion. The Installation provides the interface with the wholesale supply system. How bulk fuel is managed at the Installation is in a state of change as new fuel technologies, such as Automated Fuel Service Stations (AFSS), automated bulk tank gauging (ATG), and a new automated management system, the Fuels Automated System (FAS), are brought on line. These advances provide more efficient ways of accomplishing the manual procedures described in this model. The ongoing capitalization of bulk fuel on Army Installations by the Defense Energy Support Center (DESC) is also having an impact on how we do business at the Installation.

Estimated fuel requirements developed by the Installation in coordination with its supported units and forwarded to the Wholesale level are used by the Defense Energy Support Center (DESC) in the development of

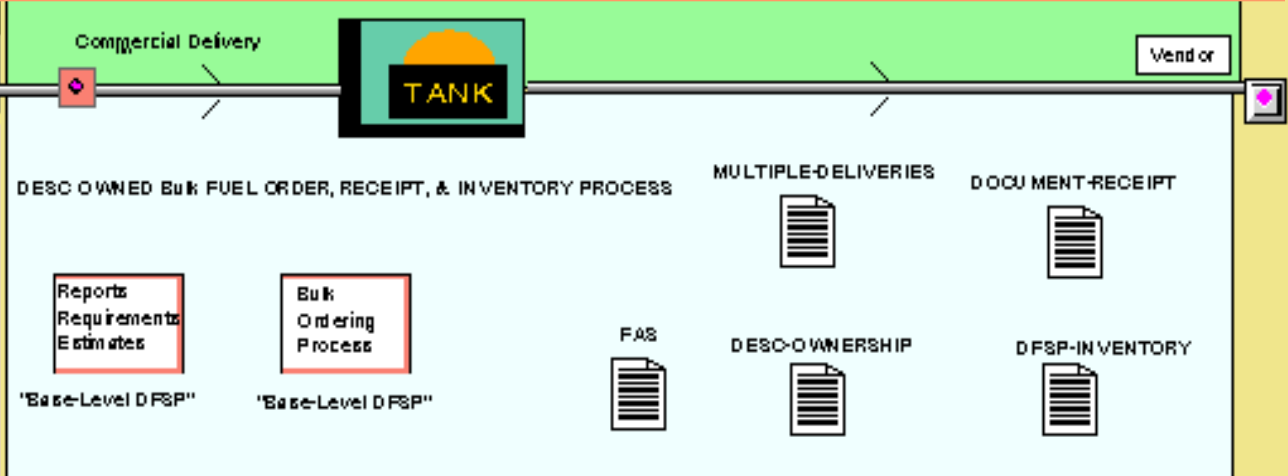




# Installation Petroleum Process



Requirements for fuel for ground operations such as diesel, gasoline, and heating oil are currently provided through the Post, Camp, and Station (PC&S) program. We will now look more closely at the PC&S requirements process.





Under the PC&S program, the Defense Energy Support Center, based on Installation estimated requirements, establishes contracts for installations to directly order fuel from a contractor for delivery to the installation.

On a scheduled basis, DESC sends out PC&S estimated requirements reporting instructions and a template via email to Army Installations. Depicted here is an outline of that process flow.

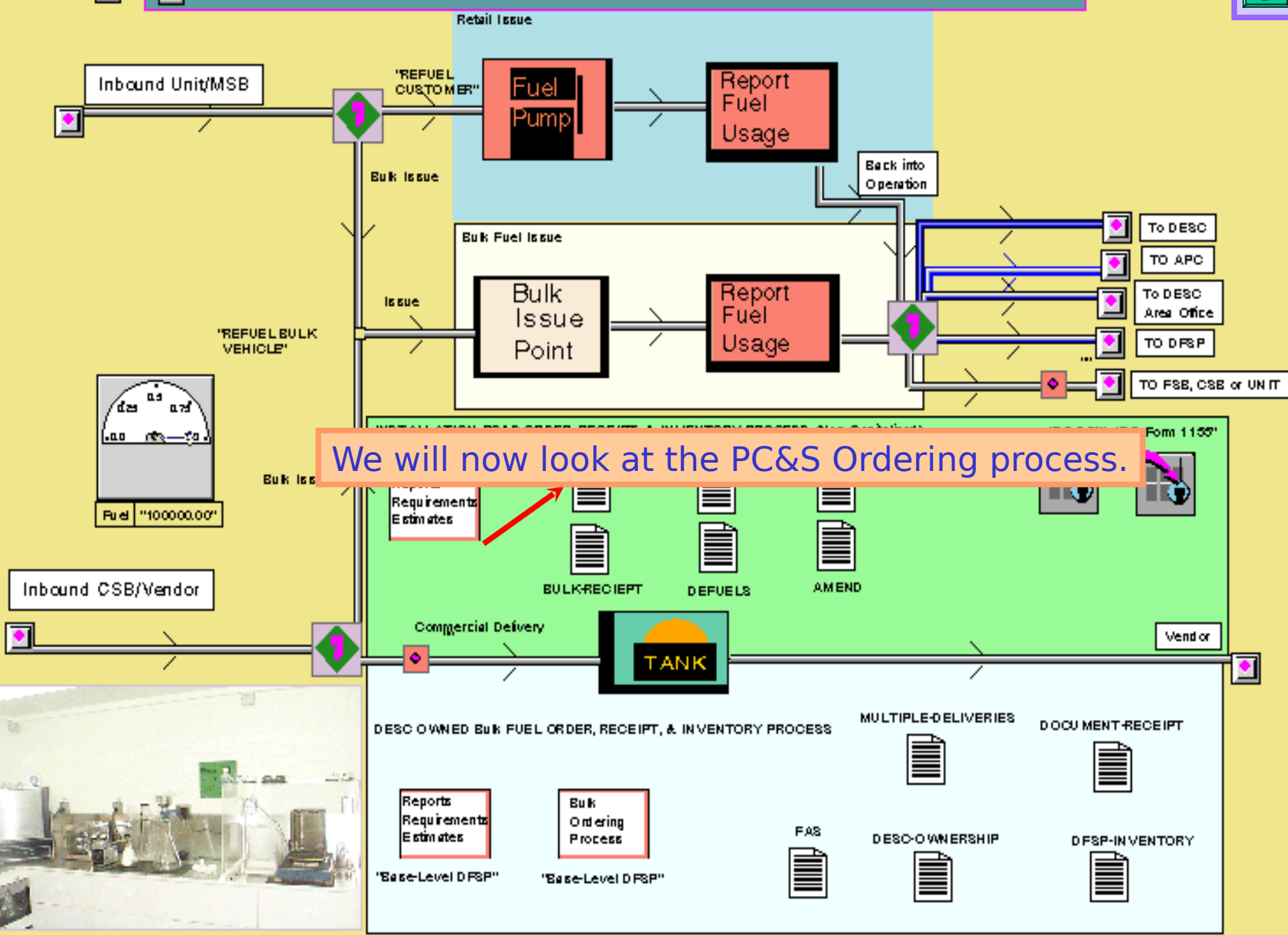
Installations update their requirements estimates based on the last 12 months of demand experience and expected changes, such as unit relocations, major scheduled training events, etc. They provide details such as petroleum products and quantities estimated to be needed for the designated time frame, receiving locations, number of drops, and required method of delivery.

Installations forward their report of estimated requirements to the U.S. Army Petroleum Center (APC) for review, processing, and forwarding to DESC. Later we will look more closely at APC's roll in this process.

If major changes occur between regularly scheduled submissions, the Installation notifies the Army Petroleum Center, who coordinates the requirement changes with DESC.



# Installation Petroleum Process





Under Post, Camp, and Station Program (PC&S)

Determine Source,  
from the DESC Contract Information  
System (CIS) on the Web.

For bulk fuel to be provided through the PC&S process, Installations place orders against designated contract sources identified in the web based Contract Information System (CIS) or directly from DESC. The ordering process is described in this view. Orders (DD Forms 1155) initiated either manually or through PORTS automation are sent to both the designated contractor and to DESC.


Send to Contractor

Send copy to DESC within 2 working days for input to Defense Fuels Automated Management System (DFAMS)

Within 24 hours, follow-up any Verbal Orders placed with Contractor, with written order, by mail/fax.



I

 Information

Document Receipt

On DD Form 1155 if single delivery  
On DD Form 250 (Material Receiving and Inspection Report) if multiple deliveries on order.  
On DD Form 250-1 (Tanker/Barge Material Inspection and Receiving Report) if delivered by water  
Use DA Form 3857 (Commercial Deliveries of Bulk Petroleum Products Checklist)  
Check that seals/serial numbers are intact when required  
Check for water in tank  
Take Quality Surveillance Samples as required - perform

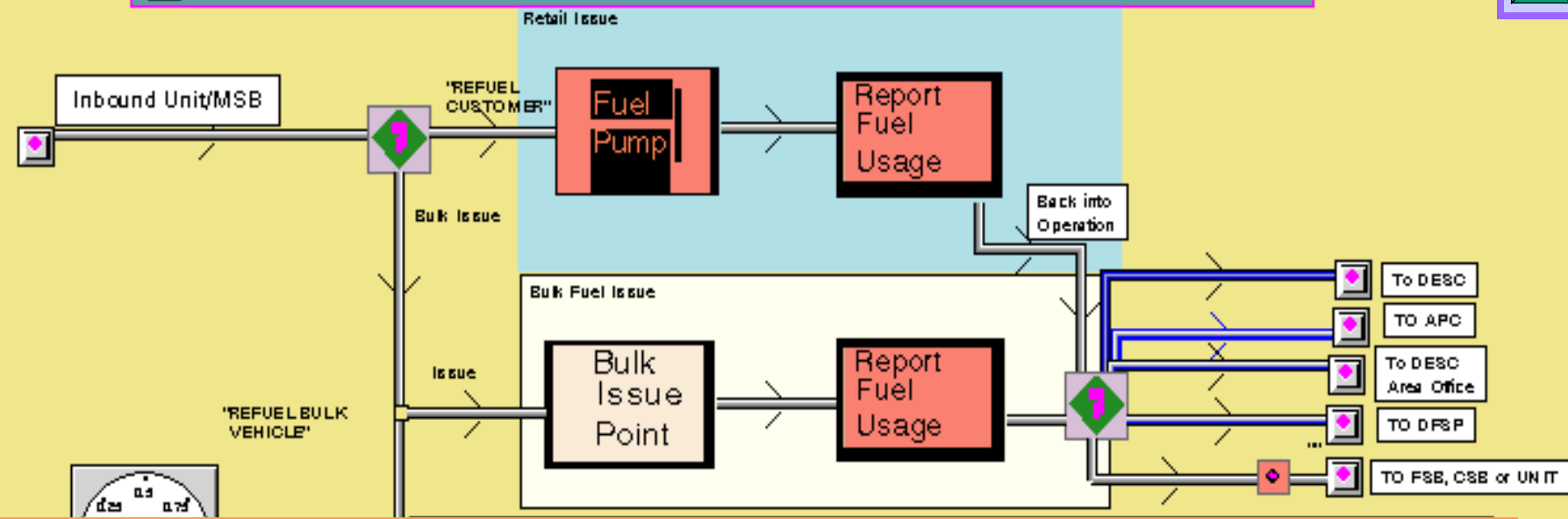
t

Shown here are Installation procedures for the receipt of PC&S fuel and disposition of documentation. Installations provide DESC copies of the purchase orders (DD Form 1155) as well as the receiving reports (DD Forms 250 or 250-1) for central payment of the contractor and inter-fund billing to the Installation. Fuel received under this program is usually Army owned fuel upon receipt at the installation, and is managed and accounted for using Army procedures.

Process Automated Receipt Document in PORTS, or if under manual processing, send copy of receiving document (DD Form 1155, DD Form 250, or DD Form 250-1) to DESC within 2 working days  
Post receipt to Accountable Records



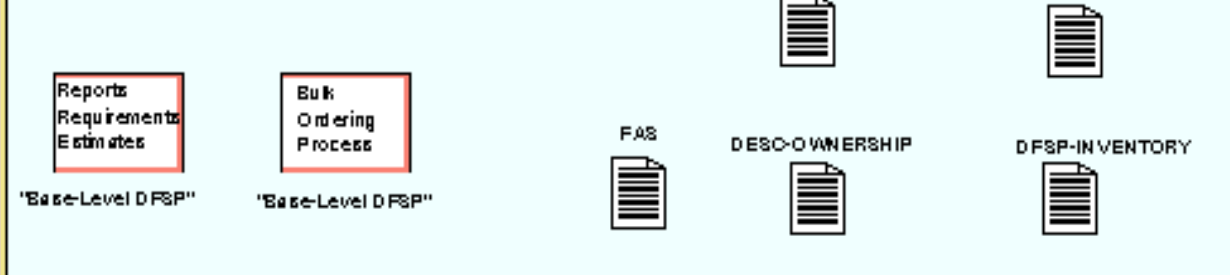
# Installation Petroleum Process



Inventory of Army owned bulk fuel at the installation is performed in the same manner and frequency as previously described for the FSB, ASB, MSB, and CSB. Some installations have been provided with Automated Tank Gauging (ATG) systems. Where this capability exists, it can be used to meet the daily/weekly inventory requirements, but the monthly inventory must still be performed using manual procedures.

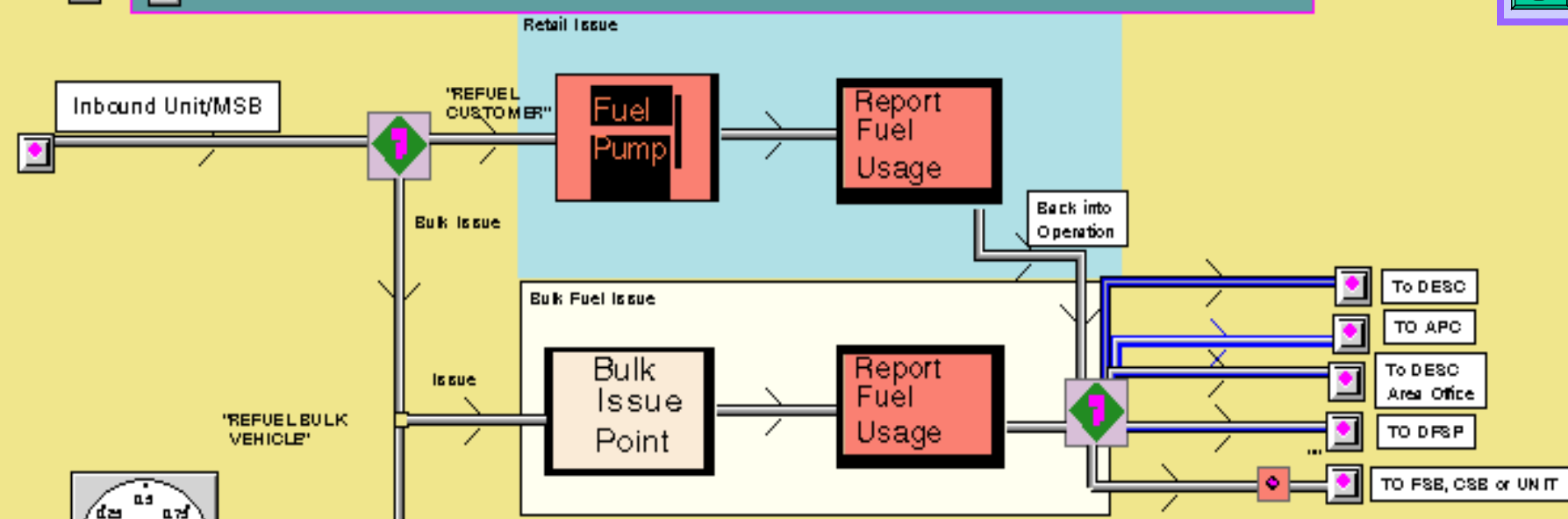


## DESC OWNED Bulk FUEL ORDER, RECEIPT, & INVENTORY PROCESS

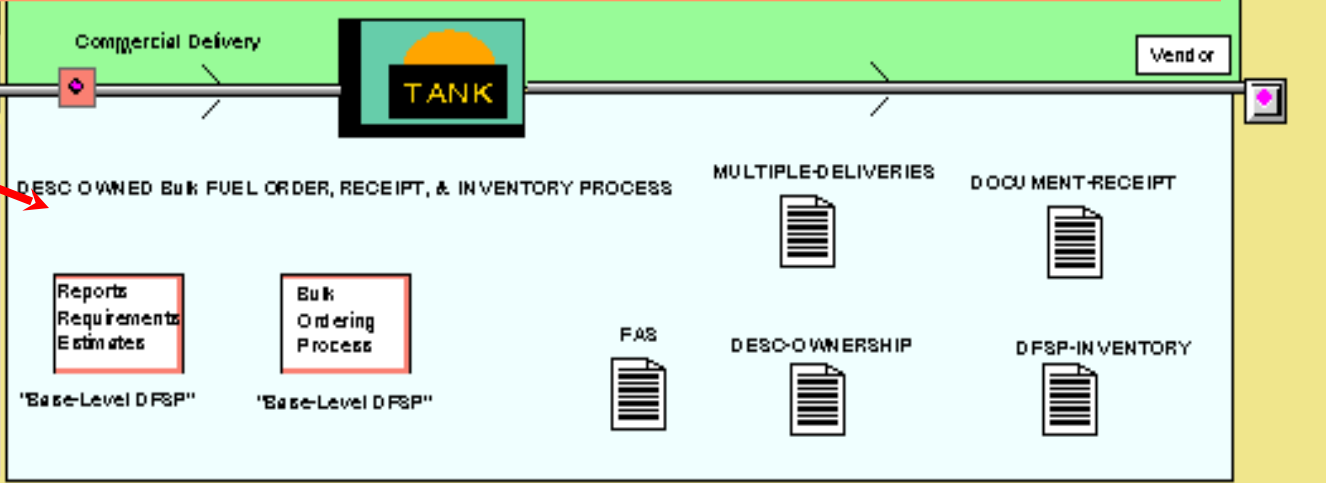




# Installation Petroleum Process

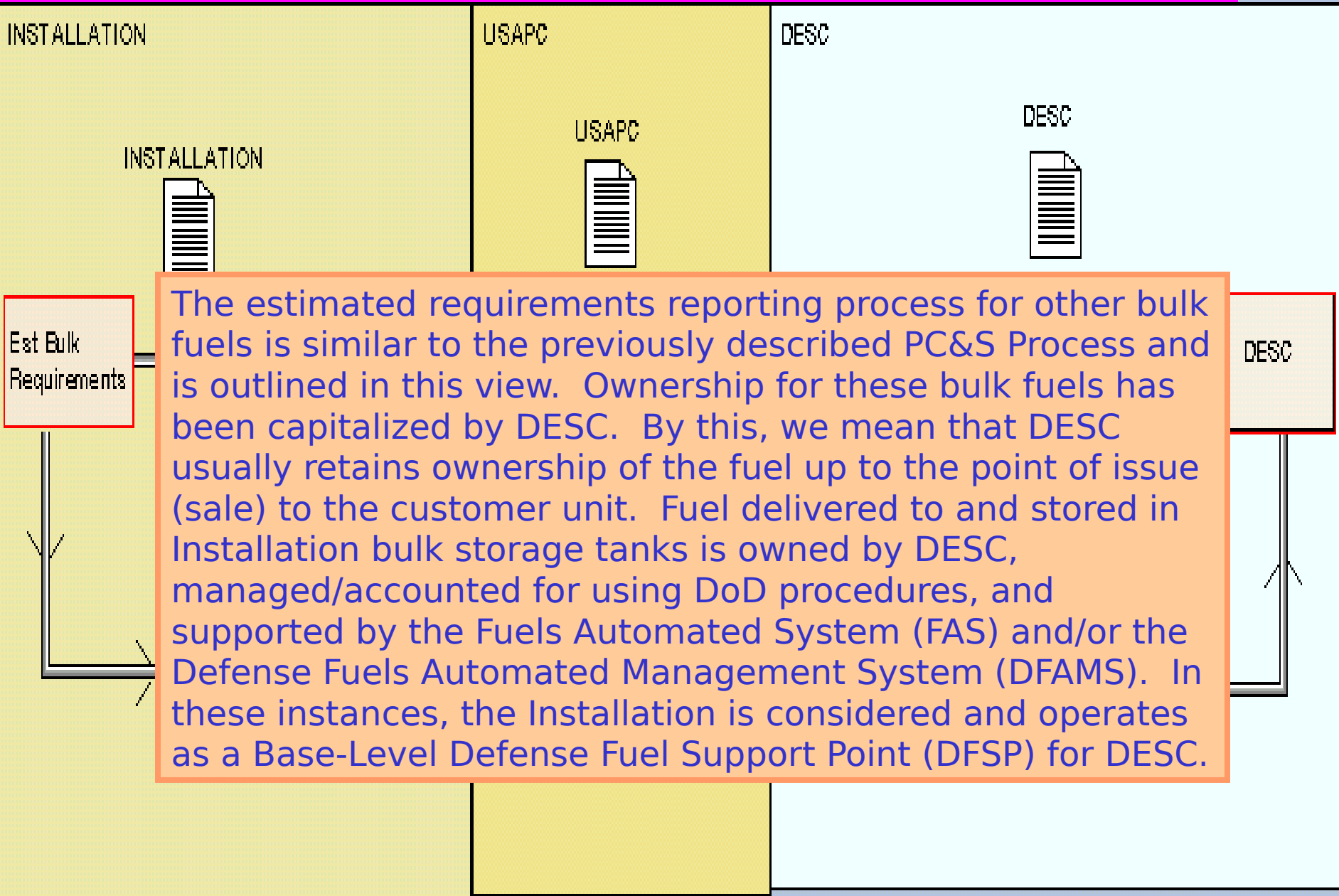


The Installation also submits estimates for other Bulk Fuel Requirements, such as jet fuels (JP 8) upon which DESC establishes procurement programs and distribution plans to provide for the Installation's needs.





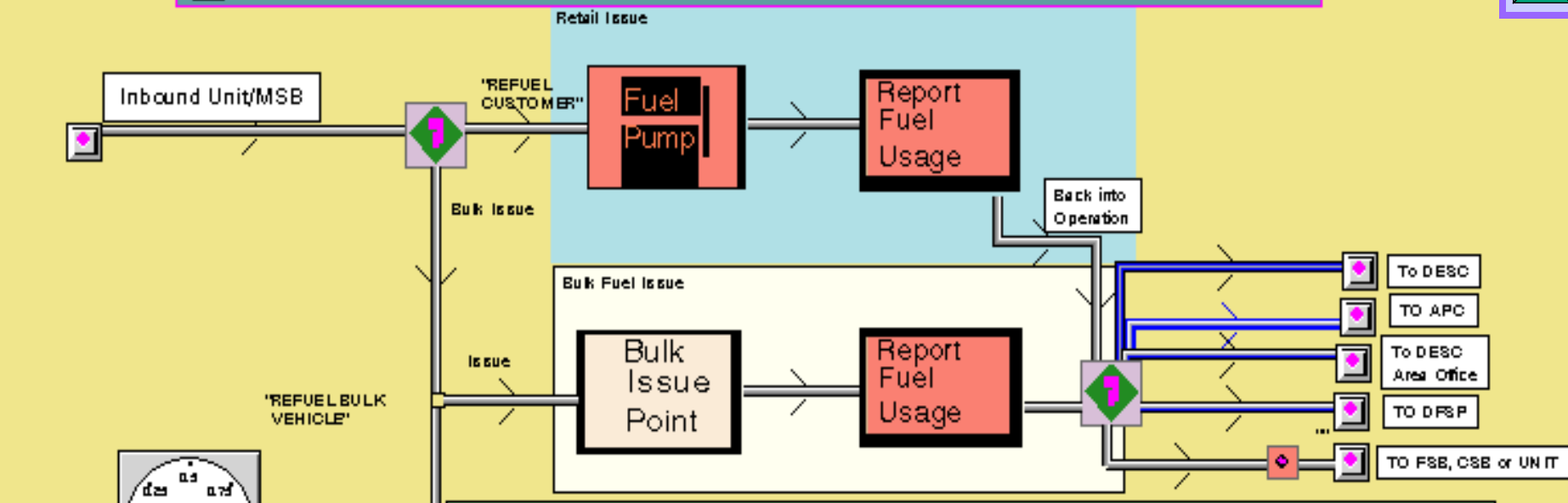
# Base-Level DFSP Bulk Requirements



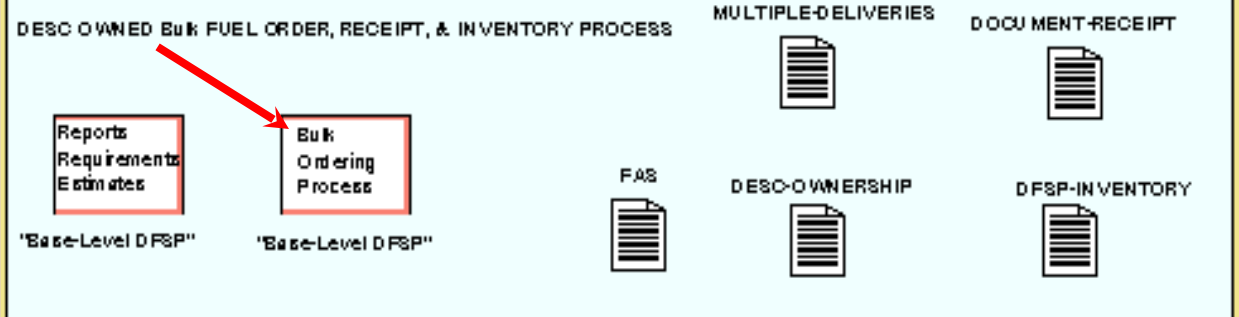




# Installation Petroleum Process



As a BASE Level DFSP, an Installation may be designated to receive fuel from either an intermediate DFSP or a contractor. We will now look at an outline of the procedures associated with each of these different sources.





Base-Level DFSP with Contract Source of Supply

DESC AREA OFFICE

CONTRACTED DESIGNATED SOURCE

EXPLANATION



More Detail

NOTE



## (Base-Level DFSP with Contract Source of Supply)

If supply is from a contract source, the Installation, as a Base Level DFSP coordinates with the DESC Area Office on its projected requirements. The DESC Area Office places an order (DD Form 1155) with the contractor for the total projected requirement for the period (usually a month). The Base Level DFSP then coordinates deliveries against the order directly with the contractor. Deliveries are documented on DD Form 250 (Material Inspection and Receiving Report), with the Base Level DFSP recording the receipt in FAS or DFAMS.

DESC Area Office

Delivery Order (DD Form 1155)

The contractor generates a DD Form 250 (Material Receiving and Inspection Report) to accompany the shipment to the Base-Level DFSP

The DESC Area Office enters P10 (Delivery Order/Amendment) type transaction into DFAMS/FAS.



# Bulk Fuel Ordering Process



Base-Level DFSP with a DESP as a Source of Supply

DESC Area Office issues SIOATH

DFSP



DESC-AREA-OFFICE



Installation

as  
BASE-  
DF

SIOATH

DESC  
AREA  
OFFICE

(Base-Level DFSP with a DESP as a Source of Supply)

If the source of supply is from an Intermediate DFSP, the Installation coordinates requirements and shipments with the DESP designated in the Source Identification Ordering Authority (SIOATH) issued by the DESC Area Office. The transfer/shipment is documented (DD Form 250 or DD Form 1348), and recorded in FAS / DFAMS.

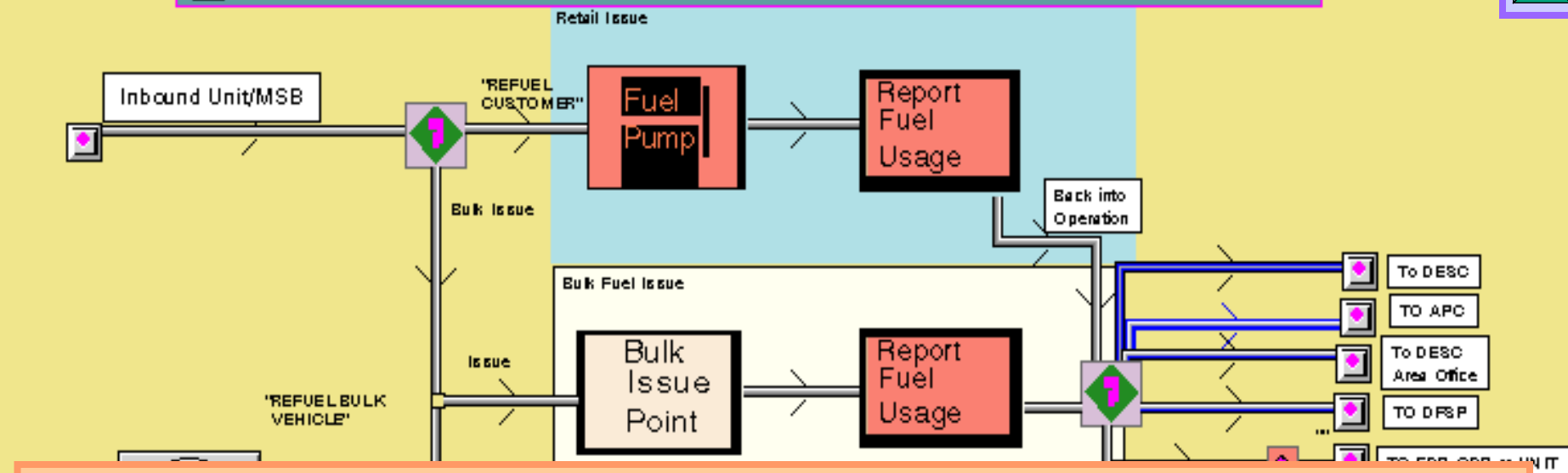
DD Fo  
DD Fo



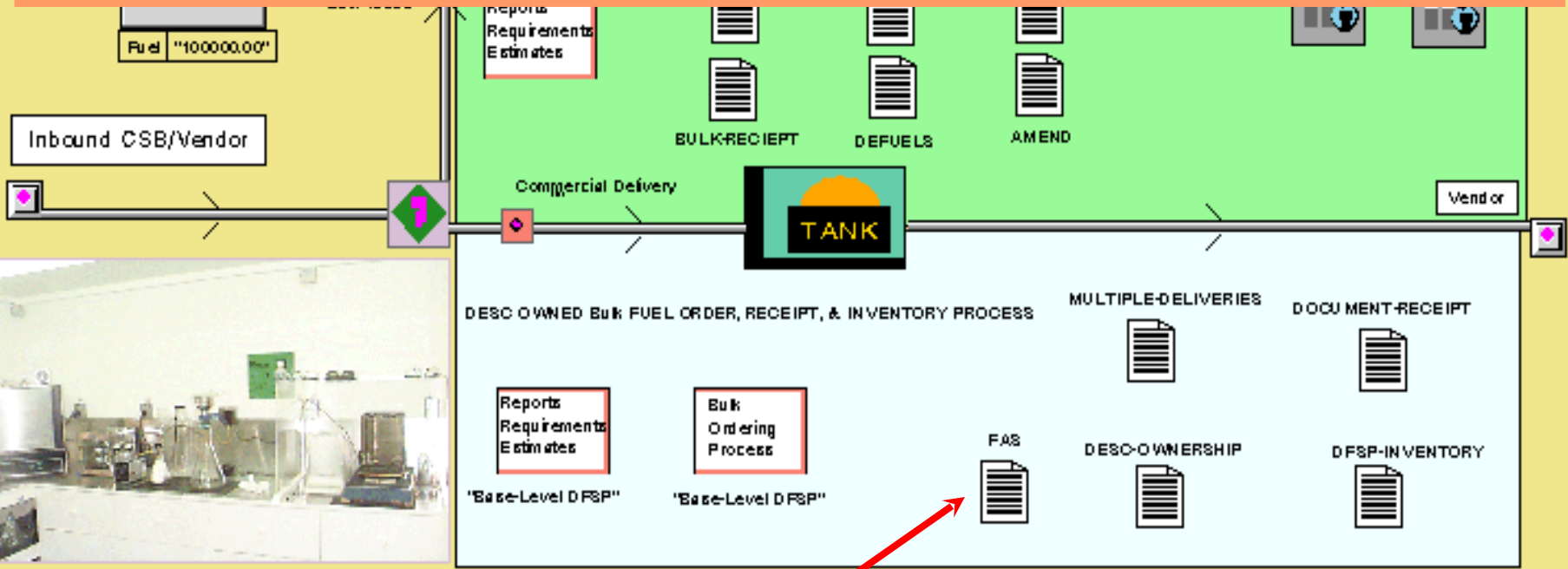
The Base-Level DFSP coordinates requirements for fuel deliveries with its supporting DESP designated in the SIOATH.



# Installation Petroleum Process



As we have been mentioning the Fuels Automated System (FAS), let us look at some additional information on its implementation and use.





## Fuels Automated System (FAS)

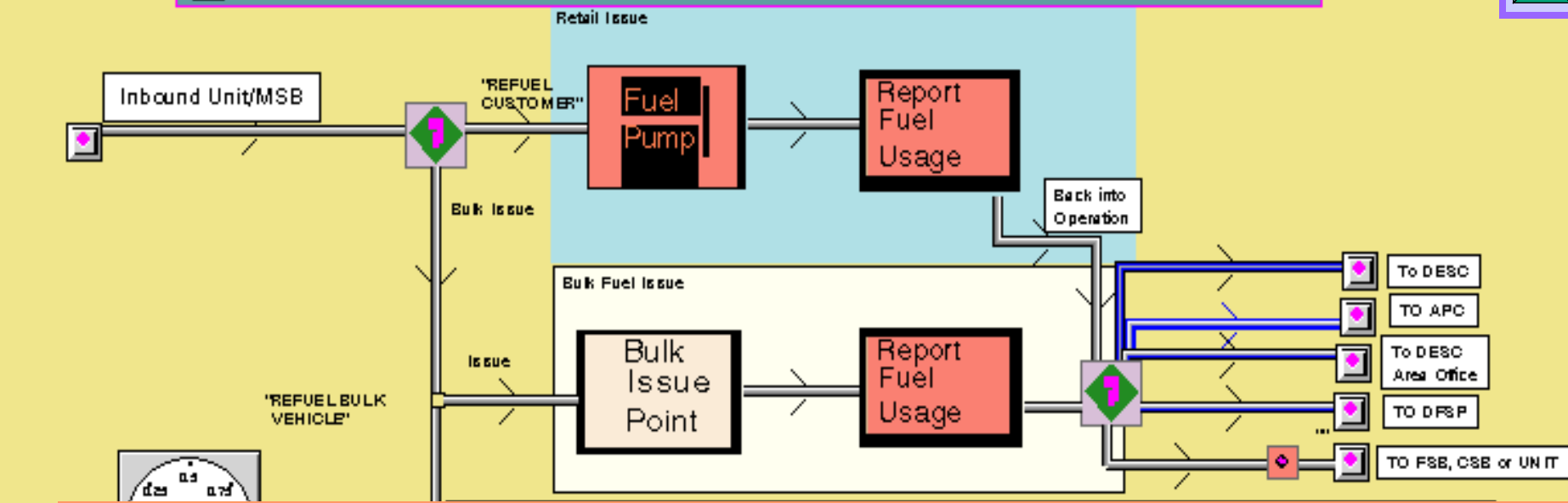
The Fuels Automated System (FAS) is being implemented throughout the Army in conjunction with the capitalization of Army-owned bulk fuel. FAS was designed by DESC to facilitate point-of-sale data collection, timely inventory control, and give decision-makers real-time access to distribution, finance and accounting, and other management data.

As noted here, use of FAS at installations throughout the army is taking place with the capitalization of bulk fuels by DESC. Where FAS is available, it will be used to support Base-Level DFSP functions described in this model as manual entries, or entries directly to DFAMS.

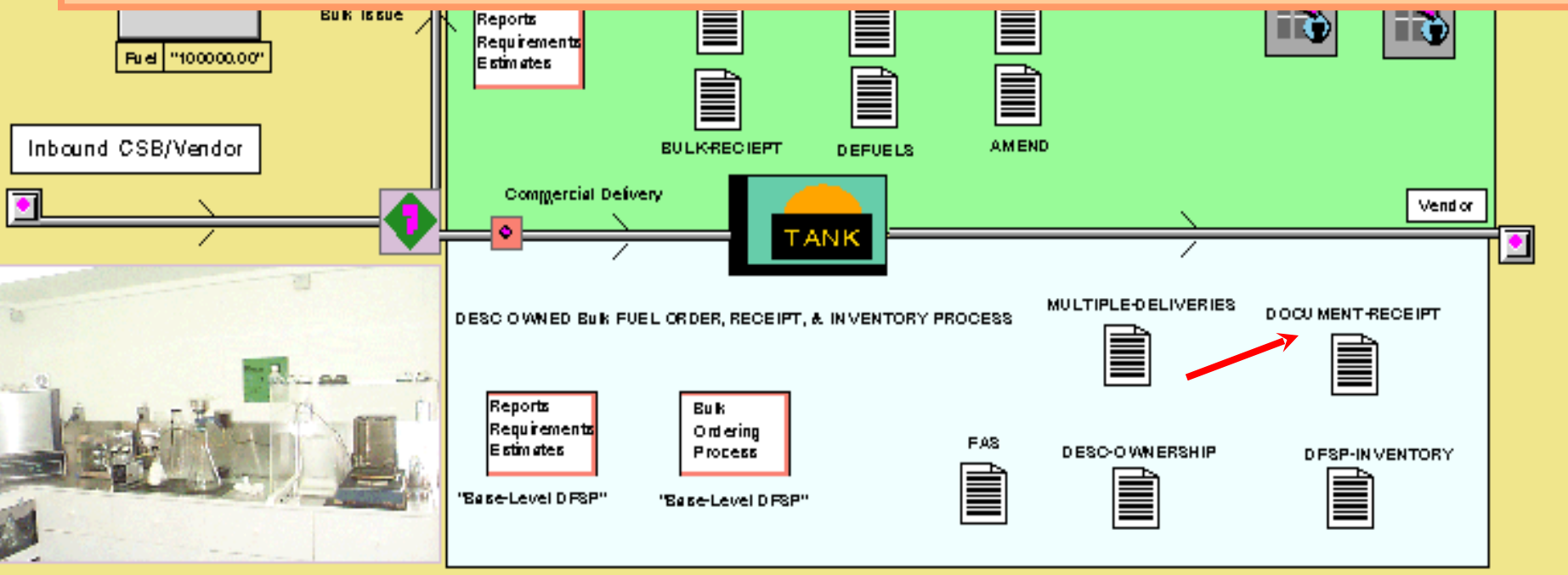
Fuels Automated Management System (DFAMS) and supporting financial systems for inventory and billing data. The Base Level DFSP functions described in this model, such as the DFAMS input for receipts, sales, and inventory, are entered utilizing the FCC front-end interface to FAS.



# Installation Petroleum Process



We will now look at procedures used to document receipt of DESC owned





## Document Receipt

Inspect/verify seals are intact as required.  
Visually examine sample of product.  
Check for presence of water.  
Verify quantity and document on DD Form 250.  
If from a DFSP, and a temperature compensating meter was used to determine shipment quantity, accept quantity shipped as quantity received. (DOD 4140.25-M, Chapter 5)  
If FOB Origin from Contractor Refinery/Terminal the quantity is determined by Certified Capacity Tables, calibrated meter

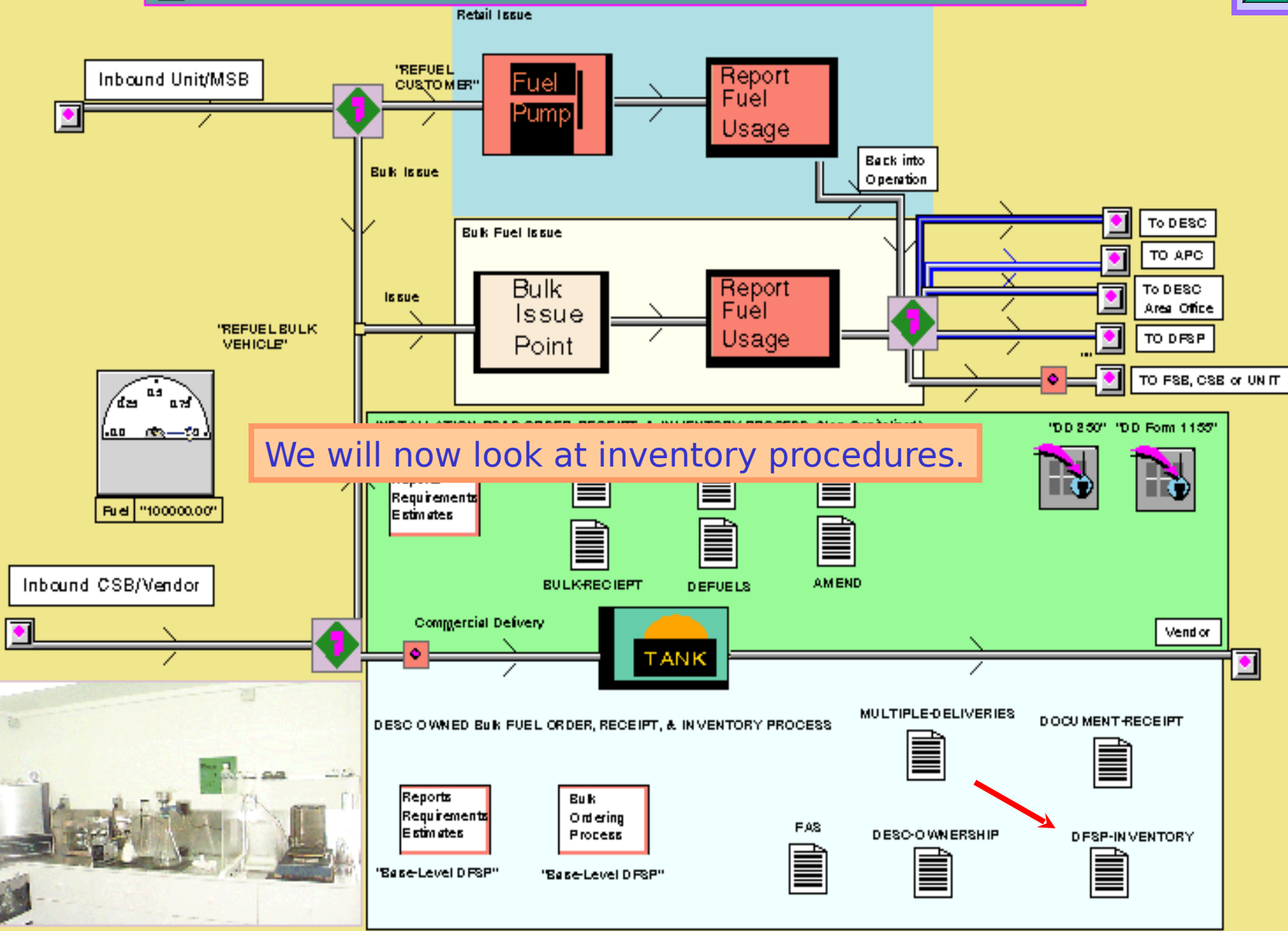
Shown here are the procedures used by the Installation in receiving, documenting, and reporting the receipt of bulk fuels when acting as a Base-Level DFSP for DESC. Installations operating under FAS will enter receipts using FAS procedures.

Enter receipt transaction into DFAMS  
- DIC P32 (Receipt by a DFSP from a DESP/DFSP)  
- DIC P30 (Receipt from a Contractor)  
- For De-fuels, enter a DIC P2B into DFAMS based on DD Form 1898 quantity.

Activities operating under FAS will perform the above functions using appropriate system procedures.



# Installation Petroleum Process



We will now look at inventory procedures.







 Wholesale level Inventory

Weekly

Perform Weekly Inventory as of 0800 each Friday  
Volume correct to 60 degree fahrenheit. When the

DESC owned fuel stored in Installation tanks is accounted for and inventoried by Army personnel using DESC procedures as shown here. As noted here, only those activities having an inventory of over 500 Barrels of a product are required to submit a weekly Bulk Petroleum Terminal Message Report.

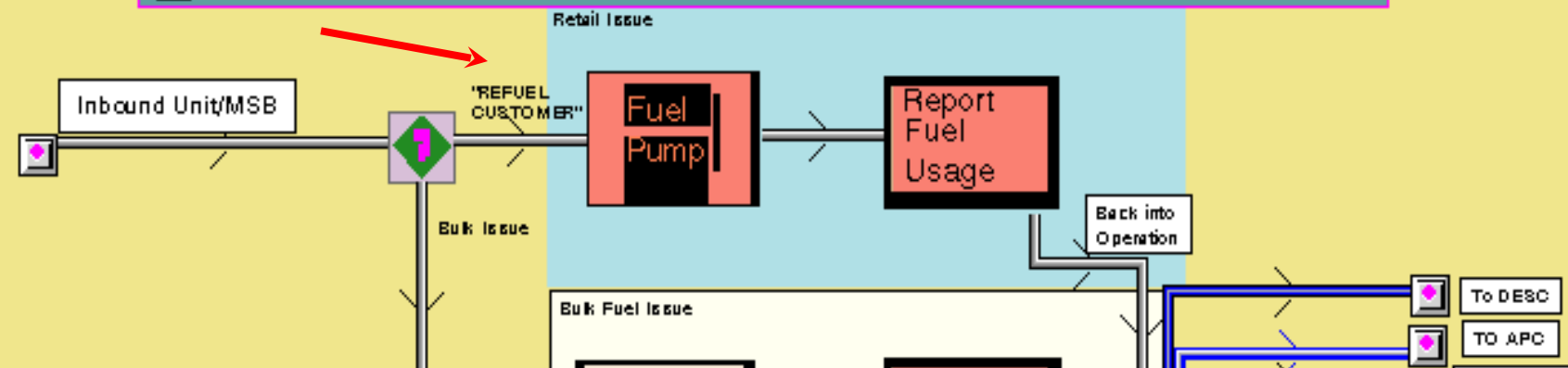
While installations may have Automated Tank Gauging systems and use these for daily or weekly inventories, the end of month inventory must be performed using manual procedures.

Change) transactions into DFAMS for regraded products or additives.

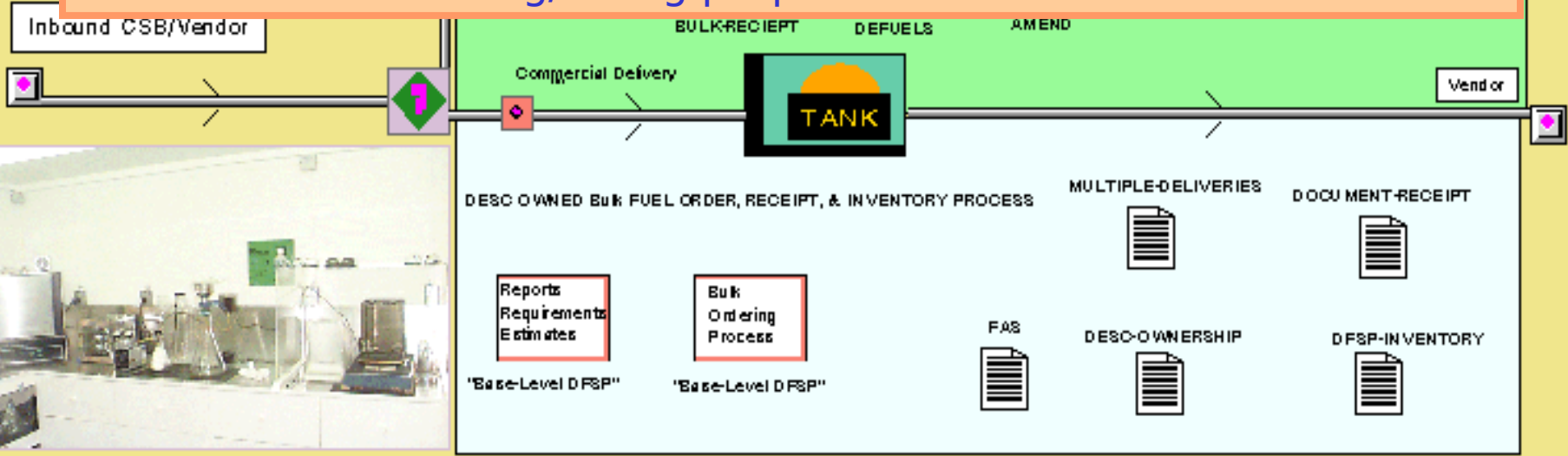
Activities operating under FAS will perform the above functions using appropriate systems procedures. Activities reporting through FES are required to submit a monthly inventory adjustment transaction (DIC P42) as a necessary part of the cycle regardless of quantity variances.



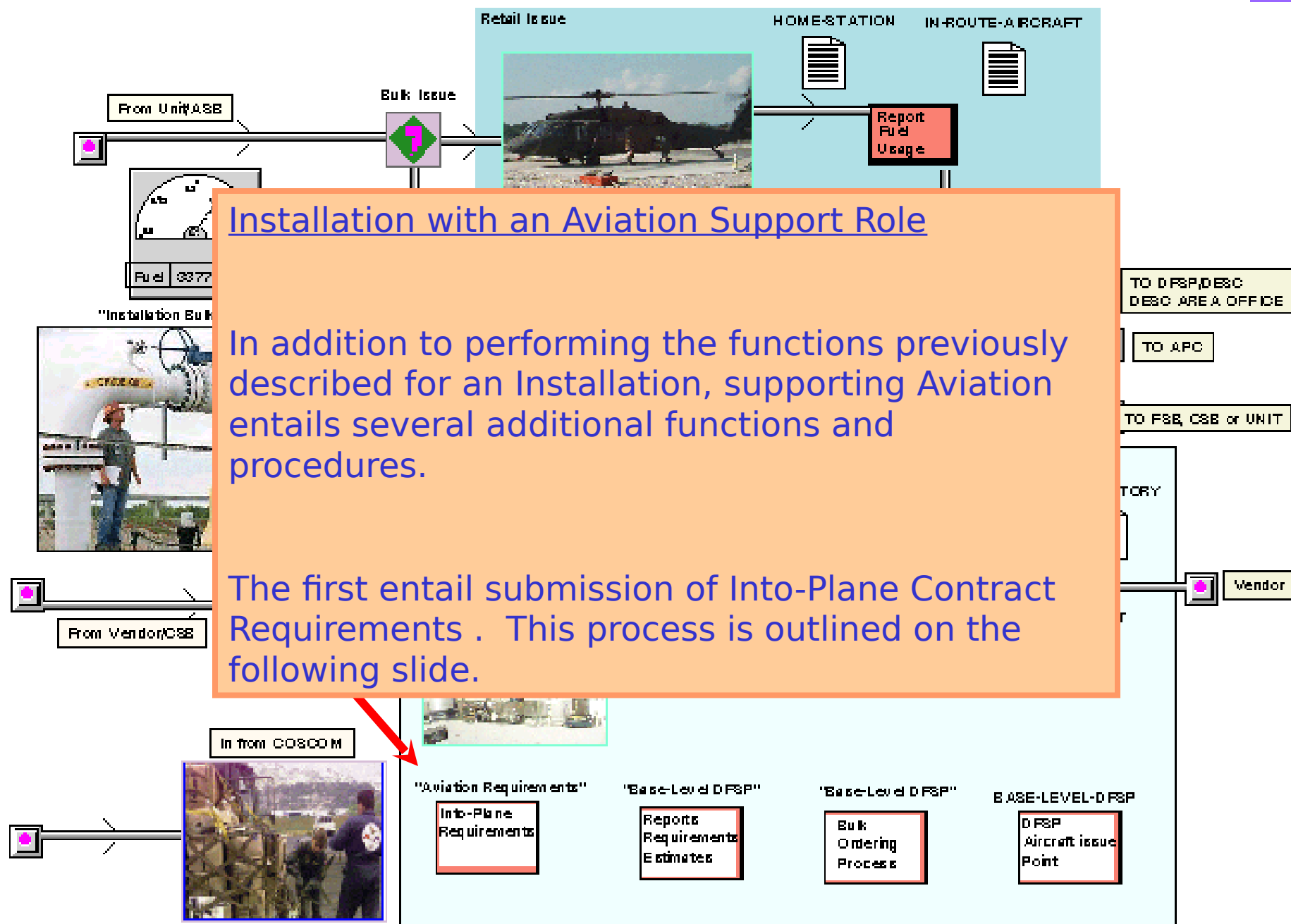
# Installation Petroleum Process



Retail issues to supported unit vehicles/equipment is made following procedures previously described. If manual procedures are used, the issue is posted to the daily issue sheet (DA Form 3643 or similar form). If the installation has automated fuel stations, the customer uses a electronic key to activate the pump and an electronic record is made of the issue with appropriate information needed for accounting/billing purposes.



DFSP-INVENTORY



## Installation with an Aviation Support Role

In addition to performing the functions previously described for an Installation, supporting Aviation entails several additional functions and procedures.

The first entail submission of Into-Plane Contract Requirements . This process is outlined on the following slide.



INSTALL

Into-Plane  
Requirements



N

DESC sends out report instructions/requirements to USAPC per DESCI 4220.1 The purpose of the report is to acquire information on the use of commercial aviation facilities as a basis for validating existing or establishing new Into-Plane contracts.

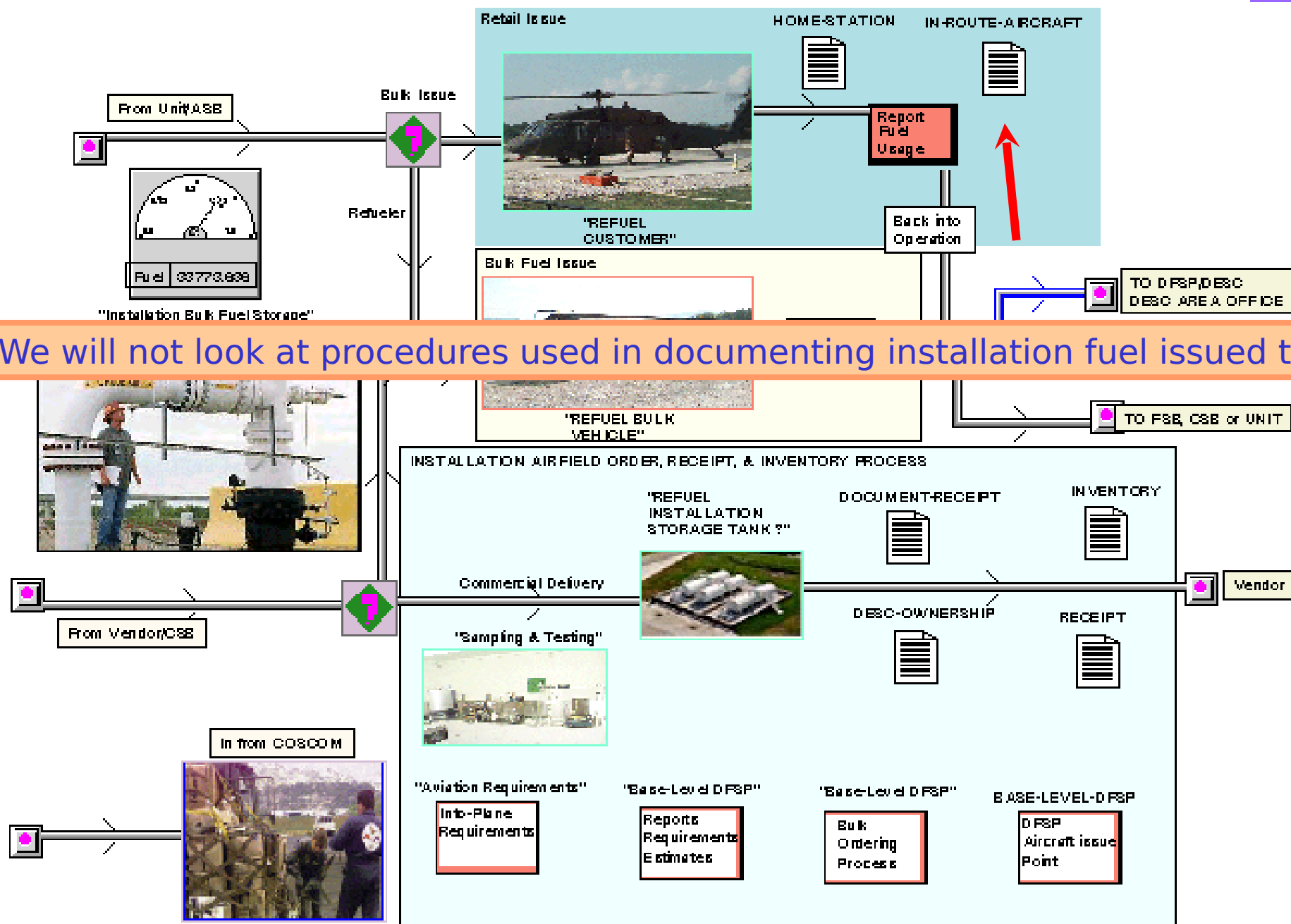
USAPC forwards the reporting instructions and tasks Installations/Activities to provide the required reports.

The Installations prepare the reports of estimated requirements when tasked and forwards the report to USAPC.

Between reporting periods, the Installation identifies the need for adding new Into-Plane locations based on actual/projected usage of 15,000 gallons a year.

USAPC reviews and processes the reports of estimated requirements and resolves questions with the Installations. USAPC then forwards the reports to DESC.

Upon receipt of estimates, DESC combines them with other Service requirements, validates needs for existing contracted locations and initiates Into-Plane contracts for facilities with an estimated requirement of 15,000gal/year. DESC also considers LIF and AIR Card data



We will not look at procedures used in documenting installation fuel issued to



## Army & Interservice Aircraft (Air Force, Navy, Marines & Govt. Agencies)

Record issue on DD Form 1898 (AVFUELS into-Plane Contract Sales Slip)

Record data from AVFUEL Identaplate onto DD Form 1898 (Customer ID#, Supplemental Address, Fund Code, Aircraft Type, Tail Number, DODAAC, etc.)

The AVFUELS Into-Plane Contract Sales Slip (DD Form 1898) is used to document issues to aircraft as noted here.

The Installation uses the DD 1898 as a basis for entering sales transactions into FAS, or into DFAMS if not equipped with FAS.

During

Keep copy #2 for Accounting Records

Provide Pilot with copies 3&4. (Copy #4 routes to Pilot's FAO)



Retail



jump  
paused  
"WEDNESDAY, 27 Jun 2001 5:38:15  
a.m."

Wholesale

Industry

BULK REQUEST

Customer

DD 1155

Customer

Customer

MSB, Refueler

Refueler

MBPAS  
REPORT

Customer

INSTALLATION  
DOL

DD 1155 copy

We will now proceed to look at the role the U.S. Army Petroleum Center (APC) plays in the supply of bulk fuel to the Army.

Non-Divisional Customer

Customer

Refueler

Back in Operation

Refueler

Customer

VENDOR

DESC  
AREA  
OFFICE

DFSP

CSB

Gas \$/b per Gall

1.0 ▽ 2.0  
1.5

Gas \$/b per Gall for the VENDOR

1.0 ▽ 4.0  
1.55





## USAPC Mission

USAPC has the mission to provide petroleum support to the Army by ensuring that adequate quantities of high quality bulk and packaged products and coal are supplied to Army installations and units when and where required; that assistance is rendered as necessary for proper functioning and readiness of tactical and non-tactical petroleum units and equipment; and that testing of

Seen here is an overall mission statement for services provided in support of the Army by USAPC.

USAPC has unique technical capabilities within the Army which give it the capacity to provide assistance at all levels of petroleum operations in both tactical and base support organizations. It also serves as the interface between the DOD wholesale manager, DLA, and Army organizations.

## APC Detail



APC MISSION

USAPC is the Service Control Point for the Army for Bulk Petroleum. As such, it is the Service interface with the Defense Energy Support Center (DESC) for Army bulk petroleum requirements submissions, modifications of requirements, and budget submissions. For DESC required requirements submissions, USAPC reviews and validates installation submissions, consolidates data, prepares Military Interdepartmental Purchase Requests (MIPRs) to accompany PC&S Program estimated requirements, and prepares budget submissions for the Army for DESC funded fuel programs.

We will now look at the Budget Submission process.

Process

REQUIRE



Process

BUDG



Fuel Laboratory

APC



Sample  
and  
Testing



## Budget Submissions

APC prepares budget submissions for the Army for DESC funded Bulk Fuel, Into-Plane, and PC&S contract bulletin items.

APC updates the budget data as requested by DESC based on requirements submissions sent in by Installations/Activities and forwards reviewed spreadsheets containing budget data to DESC.

Updates occur by regional area and times of year as listed in DESC I 4220.1

Not all submissions are annual. Bulk Fuels are

The budget submission process is described here. Based on the Requirements Estimates submitted by Army activities, APC prepares budget submissions for DESC funded fuel and provides the data to DESC for use in developing their operating budget.

DESC requests budget input from APC & provides APC spreadsheets with data requiring update

Data in spreadsheets is essentially the same as data in DD Form 2082, referenced in DOD 4140.25M for budget submissions

Projected requirements are used in preparing DESC budget estimates and operating budgets

# APC Detail



APC-MISSION

Process Installation Requirement Submissions/Modifications

## REQUIREMENTS



Army Fuel  
Requirements

USAPC also provides Petroleum Laboratory support for testing of fuel samples from CONUS Installations and Activities if locally certified support is not available. USAPC assists Installations/Activities by providing disposition for off specification fuel. USAPC also inspects and certifies CONUS based TO&E and TDA laboratories. Certification includes review of the facility's equipment, methods, and personnel qualifications.

Fuel Laboratory

APC



Sample  
and  
Testing



Retail



jump  
paused  
"WEDNESDAY, 27 Jun 2001 3:38:13  
a.m."

BULK REQUEST

Customer

MSB, Refueler

Wholesale

Industry

DD 1155

Customer

Refueler

MBPAS  
REPORT

Customer

INSTALLATION  
DOL

DD 1155 copy

We will now look at the Defense Energy Support  
Center's role in providing bulk petroleum support.

Unit Refueler

Non-Divisional Customer

Customer

Refueler

Back in Operation

Refueler

Customer

VENDOR

DESC  
AREA  
OFFICE

DFSP

CSB

Gas \$/b per Gall

1.0 ▽ 2.0  
1.5

Gas \$/b per Gall for the VENDOR

1.0 ▽ 4.0  
1.55



DESC provides wholesale level bulk petroleum support to the Army. DESC provides for Army fuel requirements in CONUS through several programs.

Based upon installation reported Post, Camp and Station (PC&S) requirements estimates, DESC establishes contracts and provides installations information on available contract sources on the web based Contract Information System.

For other Bulk Fuel requirements, DESC HQ, based on all requirements, develops procurement programs and issues contracts. It develops a Distribution Plan, advising DESC Area Offices of contract sources and Defense Fuel Support Points (DFSPs)/Defense Energy Support Points (DESPs) scheduled to receive and ship fuel. It also issues Distribution Plan Authorization (DPA) which provides Area Offices contract data, quantitative requirements and ordering limitations, and authorizes them to initiate Source Identification Ordering Authorizations (SIOATHs). Routing instructions for movement of fuel from intermediate DESPs to Base Level DFSPs are also provided.

DESC Area Offices develop the SIOATHs and distribute them to the DFSPs and their supply sources. The SIOATHs provide information on supply sources, ordering procedures, and limitations. DESC Area Offices “push” fuel to intermediate DESPs to maintain their stockage levels.

As noted previously, Army installations can serve as Base Level DFSPs, overseeing DESC owned fuel until it is issued to the customer. Deliveries to the installation Base Level DFSP can be either from an intermediate DFSP, or from a contract source.

The Defense Fuel Automated Management System (DFAMS) is currently used by DESC and Army installations to support bulk fuel operations. DESC is working to bring on line the Fuels



Retail



jump  
paused  
"WEDNESDAY, 27 Jun 2001 3:38:13  
a.m."

BULK REQUEST

Customer

Wholesale

Industry

Customer

DD 1155

MSB, Refueler

Refueler

MBPAS  
REPORT

Customer

INSTALLATION  
DOL

DD 1155 copy

Let us now look at the role of the commercial vendor in providing bulk petroleum to meet Army and other DoD requirements..

Non-Divisional Customer

Customer

Refueler

Back in Operation

Refueler

Customer

CSB

DFSP

DESC  
AREA  
OFFICE

Gas \$/b per Gall

1.0 ▽ 2.0  
1.5

Gas \$/b per Gall from VENDOR

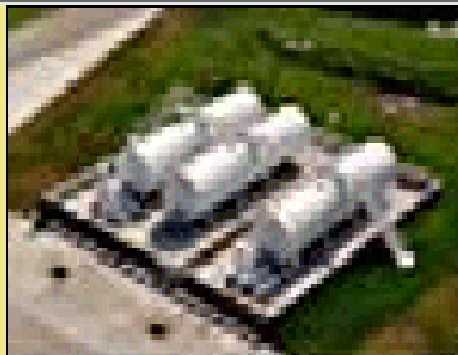
1.0 ▽ 4.0  
1.55



## Vendor Detail



COMMERCIAL-SUPPORT



The Vendor represents a commercial source of supply. In this model, a vendor can be a commercial gas station from which a unit vehicle obtains fuel using a FLEET / VOYAGER card, a commercial airport from which Army aircraft obtain fuel with an AIR Card, a contract source from which the Installation orders fuel under the PC&S Program, or a source of supply established by DESC for resupply of DESC owned stocks.

Inbound Customer

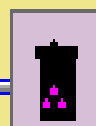


CUSTOMER"



Report  
Fuel  
Usage

Payment on DD 1155







Retail

jump  
paused"WEDNESDAY, 27 Jun 2001 3:38:13  
a.m."

BULK REQUEST

Customer

MSB, Refueler

Wholesale

Industry

DD 1155

Customer

Refueler

This concludes our overview of the Class III bulk resupply process within CONUS. As we have commented at various points during this presentation, it is a process undergoing change as the capitalization of fuel on our installations continues, old retail facilities are replaced with modern COCO or GOCO automated fuel service stations, and automated management systems such as FAS are brought on line and integrated into DESCs wholesale management systems.

ENDOR

Customer

Refueler

Back in Operation

Refueler

Customer

Gas \$/Gallon

1.0 1.5 2.0

Gas \$/Gallon from VENDOR

1.0 1.5 2.0



## **LIA Information**

**Questions or Comments**

**LOIA\_BP\_CD@hqda.army.mil**

**FAX 977-5024**

**Commercial 717-770-5024**

### **SOURCES:**

**AR 710-2**

**DODD 4140-25**

**710-2-2**

**DODD 4140-25M**

**67-1**

**DESC 4220.1**

**FM 10 - 426**

**APC**

**DESC PUB on PC&S**

**DIA/ DESC**

**DA PAM 710-2-1**

**DA PAM**

**FM 10-**

**FM 10-67-2**

**DIV/CORPS**

**MACOMS**



# Model Characteristics

## OBJECTIVE:

- To capture the U.S. Army's end-to-end Class III logistics process in a visualization model. To measure the consumption and operational constraints on the delivery of fuel based on available resources, unit size, distance, and days in operation.

## APPROACH:

- Develop the Class III Model to reference the real world aspects of the U.S. Army's petroleum process and clearly demonstrate the usage and the accountability of fuel.

## CAPABILITIES:

- Variables within the model such as organizational size, number of organizations, distance, support organizations, refueling equipment, constraints on delivery time, consumption factors and other values can all be adjusted to obtain output data. Output data from the model based on run time can be collected on Excel Spreadsheets to exhibit multiple data elements in a variety of fields, for example:

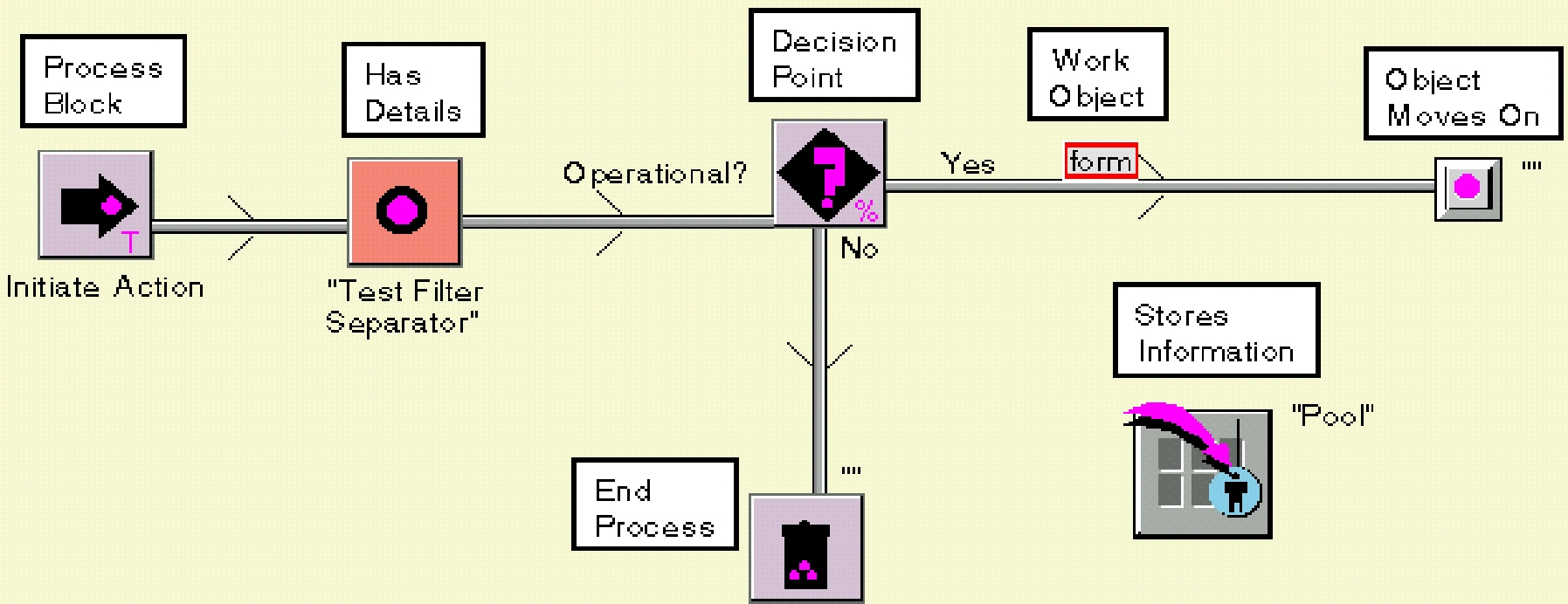
- 1.Beginning Inventory
- 2.Fuel on hand
- 3.Fuel received
- 4.Fuel issued
- 5.Cost of fuel both issued and received
- 6.Ending Inventory



# CLASSIII-PROCESS-EXPLANATION

## Class III Process Explanation

- Process blocks represent steps in the process.
- Work objects flow between process blocks.
- When a work object reaches "the end" of a workspace, it moves to another workspace.
- Salmon-colored blocks contain detail of tasks on a separate workspace.





**Class III Legend**  
Description of Working Objects Produced by The Model.



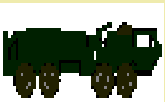
HMMWV  
Operator/Customer

DA 3644

DA Form 3644,  
Monthly Abstract of  
Issues.  
Used to compile all  
entries from the Daily  
Issue Register for the  
month. This form is  
updated daily.



Monetary obligation.  
Generated to fulfill  
financial obligations  
for POL delivery.



M978 HEMTT  
Bulk Fuel All-Terrain Vehicle  
Has tank capacity of 2500 gallons

Electric Key

Electronic Key  
Automated Process.  
Functions as an computerized  
DA Form 3643.

DA FORM  
4702-R

(MBPAS)  
Monthly Bulk Petroleum  
Accounting Summary.  
Used by units to record  
receipts, issues, and inventory  
gains and losses of POL.



Military refueling Vehicle 5000  
gallon tank fuel capacity.

Credit  
SLIP

Receipt generated from  
the Fleet Credit Card used  
for POL Purchases off post

ADJUSTMENTS



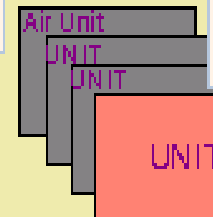
Text Describing Policy.



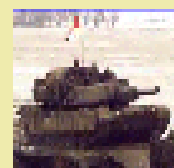
Commercial Refueling  
Vehicle

Fleet Card Report  
Monthly

Fleet Card Monthly Report  
submitted monthly to reflect  
total Fleet Card Purchases.



Salmon Colored Blocks can  
contain several layers of information,  
in order to depict meticulous detail



Tracked Vehicle  
Representation.

Bulk Fuel  
Request

DA Form 2785-1,  
DD Form 1348, etc.  
Bulk Fuel Request  
Submitted to replenish  
fuel requirements.

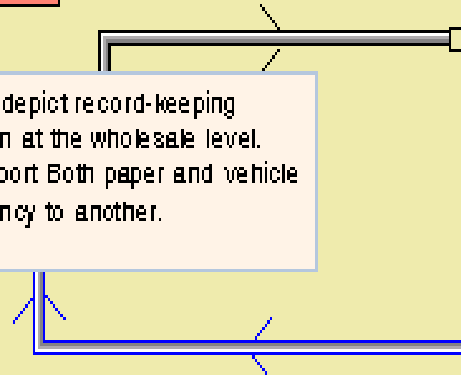
DA 3643

DA Form 3643  
Daily Issue Register.  
Records all issues  
into a consumable unit.

DD 1155

DD Form 1155  
Used to contract  
for bulk fuel requirements  
from commercial sources.

Blue colored paths depict record-keeping  
and fiscal interaction at the wholesale level.  
Gray paths will support Both paper and vehicle  
travel from one agency to another.





# Glossary of Acronyms

<b>ADP LISTING</b>	<b>Automated Data Processing Listing</b>	<b>DISCOM</b>	<b>Division Support Command</b>
<b>APC</b>	<b>Army Petroleum Center</b>	<b>DMMC</b>	<b>Division Materiel Management Center</b>
<b>API</b>	<b>American Petroleum Institute</b>	<b>DP</b>	<b>Distribution Plan</b>
<b>ASB</b>	<b>Aviation Support Battalion</b>	<b>DPA</b>	<b>Distribution Plan Authorization</b>
<b>AVGAS</b>	<b>Aviation Gas</b>	<b>DRMO</b>	<b>Defense Reutilization Marketing Office</b>
<b>CIS</b>	<b>Contract Information System</b>	<b>DSU</b>	<b>Direct Support Unit</b>
<b>CLIN</b>	<b>Contract Line Item Number</b>	<b>FOB</b>	<b>Free On Board</b>
<b>CSB</b>	<b>Corps Support Battalion</b>	<b>FSB</b>	<b>Forward Support Battalion</b>
<b>DOD 4140.25M</b>	<b>Management of Bulk Petroleum Products</b>	<b>IAW</b>	<b>In Accordance With</b>
<b>DADS</b>	<b>DFAMS Asynchronous Dial-up System</b>	<b>J P8</b>	<b>Name of multiple equipment Fuel Blend</b>
<b>DCMC</b>	<b>Defense Contract Management Command</b>	<b>MBPAS</b>	<b>Monthly Bulk Petroleum Accounting Summary</b>
<b>DESC</b>	<b>Defense Energy Support Center</b>	<b>MIPR</b>	<b>Military Interdepartmental Purchase Request</b>
<b>DESCI 4220.1</b>	<b>Requirements Submission Schedule for Energy Commodities &amp; Related Services</b>	<b>MMC</b>	<b>Material Management Center</b>
<b>DFAMS</b>	<b>Defense Fuels Automated Management Systems</b>	<b>MSB</b>	<b>Main Support Battalion</b>
<b>DFSP</b>	<b>Defense Fuel Support Point</b>	<b>PC&amp;S</b>	<b>Post, Camp and Station Program</b>
<b>DIC</b>	<b>Document Identifier Codes</b>	<b>PORTS</b>	<b>Paperless Ordering &amp; Receipt Transaction Screens</b>
<b>P20</b>	<b>Contractor Shipment</b>	<b>RCS</b>	<b>Report(s) Control System</b>
<b>P21</b>	<b>Shipment to a Service or Agency</b>	<b>SIOATH</b>	<b>Source Identification Ordering Authority</b>
<b>P22</b>	<b>Shipment to a DFSP from a DFSP</b>	<b>TDA LABORATORIES</b>	<b>Table of Distribution &amp; Allowances</b>
<b>P2B</b>	<b>Defuel</b>	<b>TO&amp;E</b>	<b>Table of Organization &amp; Equipment</b>
<b>P30</b>	<b>Receipt from Contractor</b>	<b>USAPC</b>	<b>U. S. Army Petroleum Center</b>
<b>P32</b>	<b>Receipt by a DFSP from a DFSP</b>		
<b>P41</b>	<b>Physical Inventory</b>		
<b>P42</b>	<b>Inventory Adjustments</b>		
<b>P43</b>	<b>Condition/Identity Change</b>		